CURRICULUM VITAE
JULY 2022

# ANTHONY FAIOLA, PH.D., M.F.A.

## Professor

*Department of Human & Clinical Sciences*

COLLEGE OF HEALTH SCIENCES

## Professor Affiliate

*Department Biomedical Engineering*
*&*
*Human Development Institute*

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# UNIVERSITY OF KENTUCKY

# ANTHONY FAIOLA

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|---|---|---|---|
| Business Address: | Room 207A Wethington Building, College of Health Sciences, University of Kentucky (UK) | | |
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## EDUCATION

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|---|---|---|
| **Ph.D.** | Purdue University, School of Communication, Communication Studies, W. Lafayette, IN [1] | 2005 |
| **M.A.** | The Ohio State University, College of Arts & Sciences, Industrial Design, Columbus, OH [2] | 1984 |
| **M.F.A.** | The Ohio State University, College of Arts & Sciences, Fine Arts, Columbus, OH [3] | 1979 |
| **Abroad** | Academy of Fine Arts (*Accademia di Belle Arti di Urbino*), Urbino, Italy [4] | 1976 |
| **M.A.** | University at Albany, State University of New York, NY, Department of Fine Arts [4] | 1977 |
| **B.F.A.** | State University of New York at New Paltz, NY, Department of Fine Arts [4] | 1975 |
| **Certif.** | Harvard University, Div. of Continuing Education, Design Thinking Workshop, Cambridge, MA [5] | 2017 |
| **Certif.** | Institute of Design, Illinois Institute of Technology, Design Thinking Workshop, Chicago, IL [5] | 2017 |
| **Certif.** | Association for the Advancement of Medical Instruments and the FDA, Human Factors for Engineering and Design of Medical Devices, Minn., MN [5] | 2010 |

## FACULTY APPOINTMENTS

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|---|---|---|
| 2020— | **Professor** | Department Human & Clinical Sciences, College of Health Sciences, UK |
| 2020— | **Professor** (*Affiliate*) | Department Biomedical Engineering, College of Engineering, UK |
| 2022— | **Professor** (*Affiliate*) | Human Development Institute, UK |
| 2016-20 | **Professor** | Department of Biomedical & Health Information Sciences College of Applied Health Sciences, UIC |
| 2016-20 | **Professor** (*Affiliate*) | Department of Computer Science, College of Engineering, UIC |
| 2014-16 | **Associate Professor** | Department of Bio-Health Informatics (*Joint Appointment*) Indiana University, School of Informatics & Computing, IUPUI |
| 2012 | **Scientist** (*Affiliate*) | Regenstrief Institute, Indianapolis, IN (*Sabbatical Leave*) |
| 2003-16 | **Associate Professor** | School of Engineering, Purdue University, Purdue University (IUPUI) |
| 2001-16 | **Associate Professor** | Department of Human-Centered Computing (*Tenured 2006*) Human-Computer Interaction Program SoIC, IUPUI |
| 1998-01 | **Assistant Professor** | Department of Computer Graphics Purdue University, Polytechnic Institute, West Lafayette, IN |
| 1979-98 | **Directorships** (*Industry*) | Administrative Positions in Design, Media, and Imaging Arts |

## ADMINISTRATIVE APPOINTMENTS (*See Appendix A for details.*)

| | | |
|---|---|---|
| 2020-21 | **Assoc. Dean of Research** | College of Health Sciences, University of Kentucky (UK) |
| 2016-20 | **Chair** | Department of Biomedical & Health Information Sciences University of Illinois at Chicago (UIC), College of Applied Health Science |
| 2008-13 | **Executive Associate Dean** | Indiana University—School of Informatics & Computing (SoIC) Indiana University Purdue University Indianapolis (IUPUI) |
| 2002-14 | **Founding Director** | Human–Computer Interaction Graduate Programs Indiana University, School of Informatics & Computing, IUPUI |
| 2011-13 | **Director** | Informatics Program, Undergraduate Education Indiana University—School of Informatics & Computing, IUPUI |
| 2007-09 | **Director** | Media Arts and Science Program, Indiana University, SoIC, IUPUI |

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[1] Focus: Society, Media, & Information Technology (*Sociocultural Psychology*)

[2] Focus: Visual Communication (*Human-Factors / Interface Design of Computer-Assisted Instruction*)

[3] Focus: Painting (*Mixed Media*)  |  [4] Focus: Printmaking (*Lithography*)  |  [5] Certificate of Participation

# ACADEMIC HIGHLIGHTS

| PUBLICATIONS / PRESENTATIONS | | TEACHING EXPERIENCE | |
|---|---|---|---|
| 109 | **Referred**: Jour., Proceed., Abstracts, & Posters | 34 | Graduate & UG Courses Taught |
| 19 | **Books**: Chapters, Books, & Educ. Workbooks | 16 | PhD Students Advised/Mentored |
| 109 | **Presentations**: Referred and Invited | 39 | MS Students Advised/Mentored |
| **GOOGLE SCHOLAR METRICS** | | **SERVICE WORK** | |
| 1664 | Total Citations | 37 | College/University Committees Served |
| 20 (30) | h-index (i10 index) | 16 | University Board & Councils Served |
| **GRANTS** | | **PUBLICATION LINKS** | |
| **$5,578,024** | External, Contracts, and Scholarships | Google Scholar | PubMed |
| $127,000 | Internal and Travel | DBLP-CS-Bib | ResearchGate |
| **Press Releases** (Links)**:** MIVA / HYPOalert | | **Patents** (Links)**:** MIVA / HYPOalert | |

## PUBLICATIONS

### Refereed Journals [Total: 26]

1. Zolnoori, M., Fung, K. W., Patrick, T. B., Fontelo, P., Kharrazi, H., **Faiola, A.,** Shah, N. D., Wu, Y. S., Eldredge, C. E., Luo, J., Conway, M., Zhu, J., Park S. K., Xu, K., & Moayyed, H. (2019). The PsyTAR dataset: From patients generated narratives to a corpus of adverse drug events and effectiveness of psychiatric medications. *Data in Brief, 24*. https://doi.org/10.1016/j.dib.2019.103838

2. Zolnoori, M., Fung, K. W., Patrick, T. B., Fontelo, P., Kharrazi, H., **Faiola, A.,** Shah, N. D., Wu, Y. S., Eldredge, C. E., Luo, J., Conway, M., Zhu, J., Park S. K., Xu, K., Moayyed, H., & Goudarzvand, S. (2019). A systematic approach for developing a corpus of patient reported adverse drug events: A case study for SSRI and SNRI medications, *Journal of Biomedical Informatics*, *90*. https://doi.org/10.1016/j.jbi.2018.12.005 (NIH Site: https://pubmed.ncbi.nlm.nih.gov/30611893/)

3. Hosseini, M, **Faiola, A,** Jones, J, Vreeman, D, Wu, H, & Dixon, B.E. (2019). Impact of document consolidation on healthcare providers' perceived workload and information reconciliation tasks: a mixed methods study, *Journal of the American Medical Informatics Association*, *26*(2), 134–142. https://doi.org/10.1093/jamia/ocy158 [Selected in category of Best Papers for the Health Information Management Section of the 2020 IMIA Yearbook. (International Medical Informatics Association)]

4. **Faiola, A.,** Papautsky, E., & Isola, M. (2019) Empowering the aging with mobile health: A mHealth framework for supporting sustainable lifestyle behavior, *Current Problems in Cardiology, 44*(8), 232-266. https://doi.org/10.1016/j.cpcardiol.2018.06.003

5. **Faiola, A.,** Vatani, H., & Agarwal, M. (2019). Hypoglycemic Detection by Human Breath: A Mobile Health Application that Alerts Diabetics of Low Blood Glucose, *EAI Transactions on Ambient Systems (Special Edition on Smart Coaching Solutions for Health and Well-Being, 6(18), e4*. https://eudl.eu/pdf/10.4108/eai.23-3-2018.162220

6.  Zolnoori, M., Fung, K., Fontelo, P., Kharrazi, H., **Faiola, A.,** Wu, Y, S., Stoffel, V., & Patrick, T. (2018). Identifying the Underlying Factors Associated With Patients' Attitudes Toward Antidepressants: Qualitative and Quantitative Analysis of Patient-Generated Data, *Journal of Medical Internet Research— Journal of Mental Health*, 5(4):e10726. doi:10.2196/10726 (NIH Site: https://pubmed.ncbi.nlm.nih.gov/30611893/https://pubmed.ncbi.nlm.nih.gov/30287417/)

7.  Tunnell, H. D., **Faiola, A.** Bolchini, D., & Ellis, R. (2018). Simulated Clinical Encounters Using Patient-Operated mHealth: An Experimental Study to Investigate Patient-Provider Communication, *Journal of Medical Internet Research—mHealth and uHealth, 6*(11): e11131. https://www.sciencedirect.com/science/article/pii/S0146280618300823https://mhealth.jmir.org/2018/11/e11131/

8.  Hosseini, M, Jones, J, **Faiola, A,** Wu, H, Vreeman, D, & Dixon, B. E. (2017). Reconciling disparate information in continuity of care documents: Piloting a system to consolidate structured clinical documents. *Journal of the Biomedical Informatics, 74, 123-129.* https://www.ncbi.nlm.nih.gov/pubmed/28903073

9.  **Faiola, A.** & Holden, R. (2017) Consumer Health Informatics: Empowering Healthy-Living-Seekers through mHealth*, Progress in Cardiovascular Diseases, Special Edition: Conceptualizing the Healthy Lifestyle Healthcare System*, *59*(5), 479-486. https://doi.org/10.1016/j.pcad.2016.12.006

10. **Faiola, A**., Voiskounsky, A. E. & Bogachava, N.V. (2016). Human augmentation: the formation of cyberconsciousness (Человек дополненный: становление киберсознания), *Problems of Philosophy (Вопросы философии), 3,* Russian Academy of Sciences, Moscow, Russia, 147-162. https://istina.msu.ru/publications/article/21016626/

11. **Faiola, A.** (2013). Distributed creative activity: expanding Tikhomirov's original notion of creative activity, *Psychology in Russia: State of the Art, Russian Psychological Society Press, 6*(4), *120-133*. http://psychologyinrussia.com/volumes/?article=2904

12. **Faiola, A**., Newlon, C., Pfaff, M., & Smysolva, O. (2013) Correlating the effects of flow and telepresence in virtual worlds: Enhancing our understanding of user behavior in game-based learning. *Computers in Human Behavior, 29*, 1113-1121. https://doi.org/10.1016/j.chb.2012.10.003

13. **Faiola, A**., Ho, H., MacDorman, K. F. & Tarrant, M. (2011). The aesthetic dimensions of US and South Korean responses to Web homepages: A cross-cultural comparison. *International Journal of Human-Computer Interaction*, *27*(2), 131-150. https://www.tandfonline.com/doi/full/10.1080/10447318.2011.537173

14. **Faiola, A**., Davis, S. B., & Edwards, R. L. (2010). Extending knowledge domains for new media education: integrating interaction design theory and methods. *New Media and Society*, *12*(5), 691-709. http://journals.sagepub.com/doi/pdf/10.1177/1461444809353014https://doi.org/10.1177/1461444809353014

15. Matei, S., **Faiola, A**., Wheatley, D. J., & Altom, T. (2010). The role of physical affordances in multifunctional mobile device design. *International Journal of Information Technology and Web Engineering, 5*(4), 40-57. https://dl.acm.org/citation.cfm?id=2440399

16. **Faiola, A**. & Matei, S. (2009). Enhancing human-computer interaction design education: Teaching affordance design for emerging mobile devices. *International Journal of*

*Technology and Design Education, 20*(3), 130-155.
https://link.springer.com/article/10.1007/s10798-008-9082-4

17. Bolchini, D., Pulido, D., & **Faiola, A**. (2009). Paper-in-screen prototyping: An agile technique to anticipate the mobile experience. *Interactions: New Visions of Human-Computer Interaction, 16*(3), 35-47. https://dl.acm.org/citation.cfm?id=1551992

18. **Faiola, A**. & MacDorman, K. (2008). Exploring the influence of web designer cognitive style on information design: a cross-cultural comparison of a holistic and analytical perspective. *Information, Communication and Society, 11*(3), 348-374. https://doi.org/10.1080/13691180802025418

19. Faiola, A. (2007). The design enterprise: Rethinking the HCI education paradigm. *Design Issues, 23*(3), 30-45. https://www.mitpressjournals.org/doi/abs/10.1162/desi.2007.23.3.30 https://doi.org/10.1162/desi.2007.23.3.30

20. Faiola, A. (2006). Designing humane technologies: A potential framework for human-computer interaction design. *The International Journal of the Humanities, 2*(3), 1877-1886.https://cgscholar.com/bookstore/works/designing-humane-technologies?category_id=cgrn

21. https://doi.org/10.18848/1447-9508/CGP/v02i03/41410 **Faiola, A.** & Matei, S. (2005). Cultural cognitive style and web design: Beyond a behavioral inquiry of computer-mediated communication. In C. Ess and F. Sudweeks (Eds.) Culture and Computer-Mediated Communication: Toward New Understandings. *Journal of Computer-Mediated Communication, 11*(1), 375-394. https://doi.org/10.1111/j.1083-6101.2006.tb00318.x

22. Faiola, A. (2002). New media usability: HCI curriculum focus in the School of Informatics, *Interactions*: *New Visions of Human-Computer Interaction*, *9*(2), 25-27. https://doi-org.proxy.cc.uic.edu/10.1145/505103.505116

23. **Faiola, A**. (2002). A visualization pilot study for hypermedia: Developing cross-cultural user profiles for new media interfaces. *Journal of Educational Multimedia and Hypermedia. 11*(1), 51-71. https://www.questia.com/library/journal/1G1-89942171/a-visualization-pilot-study-for-hypermedia-developing

24. Faiola, A. (1999). Re-Designing graphic arts education: A closer look at strategies for a New Millennium of Digital Communication and Globalization. *The Journal of Technology Studies. 25*(2), 47-50. https://scholar.lib.vt.edu/ejournals/JTS/Summer-Fall-1999/PDF/

25. Faiola, A. (1989). Improving courseware development efficiency: The effects of authoring systems on team roles and communication. *Educational Technology. 29*(8), 16-19. https://www.jstor.org/stable/44426848

26. **Faiola, T**. & DeBloois, M. L. (1988). Designing a visual factors-based screen display interface: The new role of the graphic technologist. *Educational Technology, 28*(8), 12-21. https://www.jstor.org/stable/44426897

**Refereed Conference Proceedings [Total: 30]**

1. Zolnoori, A., Eldredge, C., Topaz, M., **Faiola, A.**, Fontelo, P. & Zolnoori, M. (2020). Developing a risk identification algorithm for identifying patients at risk of medication non-adherence in patients with depression, *Proceedings of American Medical Informatics Association Summit, Chicago, IL, March 21, 2022*.

2. Belkacem I., Pecci I., **Faiola A.,** Martin B. (2020) Investigating a Design Space for Developing Design Thinking in Electronic Healthcare Records. In: Stephanidis C., Marcus A., Rosenzweig E., Rau PL.P., Moallem A., Rauterberg M. (eds) HCI International 2020 - Late Breaking Papers: User Experience Design and Case Studies. HCII 2020. Lecture Notes in Computer Science, vol 12423. Springer, Cham. https://doi.org/10.1007/978-3-030-60114-0_2

3. Belkacem I., Pecci I., Martin B., & **Faiola A.** (2019) TEXTile: Eyes-Free Text Input on Smart Glasses Using Touch Enabled Textile on the Forearm. *Proceedings of the 17th IFIP TC 13 International Conference, Paphos, Cyprus, September 2–6, 2019.* (Also in: Lamas D., Loizides F., Nacke L., Petrie H., Winckler M., Zaphiris P. (eds) Human-Computer Interaction – INTERACT 2019. INTERACT 2019. Lecture Notes in Computer Science, vol 11747. Springer, Cham. https://doi.org/10.1007/978-3-030-29384-0_22

4. **Faiola A,** Belkacem I, Bergey D, Pecci I, Martin B. (2019) Towards the Design of a Smart Glasses Application for MICU Decision-Support: Assessing the Human Factors Impact of Data Portability & Accessibility. *Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care*; 8(1):52-56. doi:10.1177/2327857919081012

5. **Faiola, A.,** Vatani, H., Greenhill, K., Bhuma, M., & Agarwal, M. (2018). HYPOalert: Designing Mobile Technology for Hypoglycemic Detection and Monitoring—Based on Human Breath*, Proceedings of the 12th EAI International Conference on Pervasive Computing Technologies for Healthcare*, May 2018, ACM, New York, New York, 402-406. https://doi.org/10.1145/3240925.3240975

6. Papautsky, E.L., Abdulbaseer, U., & **Faiola, A.** (2017). What is the role of patient families? An exploratory study in a medical intensive care unit. *Proceedings of Human Factors & Ergonomics Society 2017, International Annual Meeting*, Austin, TX, Oct 2017. http://journals.sagepub.com/doi/pdf/10.1177/1541931213601621

7. Srinivas, P., Reddy, M. C., & **Faiola, A.** (2016). Better managing technology-mediated interruptions in the ICU: Examining the role of patient information for improving text message notifications. *Proceedings of American Medical Informatics Association, Annual Symposium*, *November, 2017*. (*Distinguished Paper Nomination*) https://www.ncbi.nlm.nih.gov/pubmed/28269913

8. **Faiola, A.,** Papautsky, E. L., & Joo, M. (2016). Supporting Patient Healing through ICUsmartCARE: Technologies that Enable Increased Family Presence, Communication, and Information Flow, *Proceedings of the 2016 IEEE International Conference on Healthcare Informatics 2016 (ICHI) in Chicago, IEEE Computer Society*. https://ieeexplore.ieee.org/document/7776358/

9. Tunnell, H. D., Pfaff, M. & **Faiola, A.** (2016). Secondary Users and the Personal mHealth Record: Designing Tools to Improve Collaboration Between Patients and Providers, Extended Abstract, *Proceedings of the 2016 IEEE International Conference on Healthcare Informatics 2016 (ICHI), Chicago, IEEE Computer Society*, pp. 412-412. https://ieeexplore.ieee.org/document/7776395/

10. Srinivas, P., **Faiola, A.**, & Mark, G. (*2016*). Designing guidelines for mobile health technology: Tools for managing notification interruptions in the ICU, *Proceedings of ACM CHI Notes, San Jose, CA, USA, May 7-12*. New York, NY: Association for Computing Machinery Press*, April 2016.* https://dl.acm.org/citation.cfm?id=2858553

11. **Faiola, A.** Srinivas, P. & Duke, J. (2015). Supporting clinical cognition: a human-centered approach to a novel ICU information visualization dashboard, *Proceedings of American*

*Medical Informatics Association, Annual Symposium*, *Chicago, IL, November 14, 2015*.
https://www.ncbi.nlm.nih.gov/pubmed/26958190

12. **Faiola, A.,** Srinivas, P. & Doebbeling, B. (2015) A ubiquitous situation-aware data visualization dashboard to reduce ICU clinician cognitive load. *Proceedings of the IEEE HealthCom 2015, Boston, MA*, *April 15, 2015*.
https://ieeexplore.ieee.org/document/7454540/

13. Srinivas, P., **Faiola, A.,** & Khan, B. (2015). Supporting information management in ICU rounding a novel mobile system for managing patient-centered notes and action-items, *Proceedings of the IEEE HealthCom 2015, Boston, MA*, *April 15, 2015*.
https://ieeexplore.ieee.org/document/7454571

14. Tunnell, H., **Faiola, A.,** & Haggstrom, D. (2015). Clinicians as secondary users of patient-centered, mobile technology in complex healthcare settings, *Proceedings of the IEEE HealthCom 2015, Boston, MA*, *April 15, 2015*.
https://ieeexplore.ieee.org/document/7454586/

15. **Faiola, A.**, Srinivas, P., & Hillier, S. (2015). Improving patient safety: Integrating data visualization and communication into ICU workflow to reduce cognitive load. *Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care, Baltimore, MD*, *April 2015*.
http://journals.sagepub.com/doi/abs/10.1177/2327857915041013

16. **Faiola, A.** & Srinivas, P. (2014). Extreme mediation: observing mental and physical health in everyday life. *Proceedings of the 2014 Association for Computing Machinery (ACM) International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2014), Seattle, WA,* 47-50. https://doi.org/10.1145/2638728.2638741

17. Newlon, C. M., **Faiola, A**. & MacDorman, K. F. (2008) Building the mega-collaboration interface: Behavioral, cultural, and cognitive factors in visualization support. *Proceedings of the 2008 12th International Conference on Information Visualization*, *London, IV '08, IEEE*, pp. 509-514. https://ieeexplore.ieee.org/document/4577997

18. Beatty, K., Elliott, R. & **Faiola, A**. (2006). Seeking news on the internet: An analysis of user behavior in selecting online media outlets. *Proceedings of Cultural Attitudes Towards Communication and Technology*, 2006. Tartu, Estonia. F. Sudweeds, H. Hrachovec and C. Ess (eds.), 130-141.

19. Newlon, C. & **Faiola, A**. (2006). Support for mega-team collaboration with cultural tools: providing a framework for the dynamic development of team culture. In F. Sudweeds, H. Hrachovec and C. Ess (eds.). *Proceedings of Cultural Attitudes towards Communication and Technology*, 2006. Tartu, Estonia, pp. 235-254.

20. **Faiola, A**., & Hillier, S. (2006). Multivariate relational visualization of complex clinical datasets in a critical care setting: A data visualization interactive prototype. *Proceedings of the conference on Information Visualization 2006*, Pages 460–468.
https://doi.org/10.1109/IV.2006.76

21. **Faiola, A.** & Groth, D. P. (2005) Enhancing 3D file search with landscapes and personal histories: exploring the possibilities of TerraSearch+, *Proceedings of the 9$^{th}$ International Conference on Information Visualisation (IV'05)*, London, UK, pp. 613-618.
https://ieeexplore.ieee.org/document/1509138

22. Matei, S., Wheatley, D. J. & **Faiola, A**. (2005). On-screen vs. physical affordances in the context of a multimedia cell phone. *Proceedings of the MobileHCI 7th Annual Conference*

*on Human-Computer Interaction Mobile Devices and Services*, September 19-22, 2005, Salzburg, Austria.

23. **Faiola, A.,** Groth, D., & Altom, T. (2005). Integrating the visualization of personal histories of file usage into 3D landscapes: enhancing desktop file searching using TerraSearch+. *In G. Salvendy and J. Jacko (Eds.), Human-Computer Interaction: Ergonomics and User Interfaces, Theory and Practice, Proceedings of the 11th International Conference on Human-Computer Interaction: Vol.4. (Theories Models and Processes in HCI.)* Las Vegas, July 22-27, 2005 [Electronic Publication]. Mahwah, NJ: Lawrence Erlbaum Associates.

24. **Faiola, A.** & Matei, S. (2005). Cross-cultural computer-mediated communication and online learning: assessing the impact of web designer cognitive style on information design. *In G. Salvendy and J. Jacko (Eds.), Human-Computer Interaction: Ergonomics and User Interfaces, Theory and Practice, Proceedings of the 11th International Conference on Human-Computer Interaction: Vol. 10. (Internationalization, Online Communities and Social Computing: Design and Evaluation.)* Las Vegas, July 22-27, 2005 [Electronic Publication]. Mahwah, NJ: Lawrence Erlbaum Associates.

25. Faiola, A. (2005). Managing design knowledge: a new pedagogical framework for HCI. *In G. Salvendy and J. Jacko (Eds.), Human-Computer Interaction: Ergonomics and User Interfaces, Theory and Practice, Proceedings of the 11th International Conference on Human-Computer Interaction: Vol. 5. (Emergent Application Domains in HCI.)* Las Vegas, July 22-27, 2005 [Electronic Publication]. Mahwah, NJ: Lawrence Erlbaum Associates.

26. Altom, T., Buher, M., Downey, M., Gutierrez, D. & **Faiola, A**. (2004). Using 3D landscapes to navigate filespace: Extending the data mountain with mountainview. *Proceedings of the 8th International Conference on Information Visualisation (IV'04)*, London, UK, 645-649.

27. Faiola, A. (2003). The Copernican shift: HCI education and the design enterprise. *In G. Salvendy and J. Jacko (Eds.), Human-Computer Interaction: Ergonomics and User Interfaces, Theory and Practice, Proceedings of the 10th International Conference on Human-Computer Interaction*. Greece: Crete, July, 2005 [Electronic Publication]. Mahwah, NJ: Lawrence Erlbaum Associates.

28. Faiola, A. (2002). Producing the hybrid new media specialist: Two prominent academic programs in graphic communication address the needs of an evolving industry. *Proceedings of Graphica 2001, International Conference on Graphics Engineering for Arts and Design*, San Paulo Brazil, 98-108.

29. Faiola, A. (2002). Paradigms and partnerships in graphic communication education: A three-fold initiative for survival. Paper Abstracts from Graphica 2001, *International Conference on Graphics Engineering for Arts and Design*, San Paulo Brazil, 20.

30. Faiola, A. (2000). Cross-cultural landscapes of visual intelligence: An investigation of visualization problem-solving across cultural boundaries. *Proceedings of the International Visual Literacy Association Conference, IVLA2000*, 113-122.


**Refereed Extended Abstracts [Total: 32]**

1. **Faiola, A.**, & Papautsky, E.L. (2019). mHealth that supports the role of the MICU nurse in family mental healthcare, Session 4: Informatics Support for Practice-based Knowledge Generation and Nursing and Healthcare Practice Sponsored by Shadow Health, Extended Abstract, *Health Informatics Kobb Symposium, College of Nursing, University of Florida, Gainesville, FL,*. https://kobbsymposium.nursing.ufl.edu/topics/

2. Zolnoori, M., Ngufor, C., **Faiola, A.,** Eldredge, C. E., Luo, J. Patrick, T., Sohn, S. Balls-Berry, J. Tafti, A. & Shah, N. (2019). Identifying factors affecting drug discontinuation in patients with depression: Text analysis of patient drug review posts (2019). Extended Abstract. *American Medical Informatics Association, Annual Symposium, Washington, DC.* https://www.amia.org/amia2019/oral-presentations/abstract

3. Zolnoori, M., Fung, K., Patrick, T., Fontelo, P., Kharrazi, H., **Faiola, A**., Wu, Y. W., Stoffel, V. & Patrick, T. B (2018). Utilizing Consumer Health Posts to Identify Underlying Factors Associated with Patients' Attitudes towards Antidepressants, Extended Abstracts, *American Medical Informatics Association, Annual Symposium*, San Francisco, CA. https://knowledge.amia.org/67852-amia-1.4259402/t006-1.4263223/t006-1.4263224/2973531-1.4263225/2973531-1.4263226

4. **Faiola, A.** & Abraham, J. (2018). FAMcare: A MICU Room-to-Mobile System—Supporting the Communication Needs of Families, Extended **Abstracts,** *American Medical Informatics Association, Annual Symposium*, San Francisco, CA. https://knowledge.amia.org/

5. Tunnell, H. D., **Faiola, A.** & Bolchini, D. (2017). Guidelines to Incorporate a Clinician User Experience (UX) into the Design of Patient-Operated mHealth. Extended Abstract in Computing Systems, *CHI 2017, ACM CHI Conference, Denver, CO*, pp. 385-388. https://doi.org/10.1145/3027063.3052966

6. **Faiola, A.,** Khairat, S., & Kaufman, D. (2016). From coexistence to convergence: The pedagogical transpositioning of human-computer interaction within biomedical informatics. *2016 InSpire, Education Symposium, American Medical Informatics Association.* Extended Abstract. https://www.amia.org/inspire2016/wed-sessionshttps://knowledge.amia.org/63196-amia-inspire-1.3227080/t002-1.3227258/f002-1.3227259/a003-1.3227274/2503344-1.3227275?qr=1

7. Ansah-Koi, K., Srinivas, P., Strzeszkowski, D., Gross, M., & **Faiola, A.** (2016) Building Healthy Social Media for All: Investigating How Different Cultures Seek and Process Health Information, Extended Abstract. *IUPUI Research Day, April 8, 2016.* https://scholarworks.iupui.edu/handle/1805/9607

8. Zolnoori, M. Patrick, T. B., Conways, M., **Faiola, A.,** & Luos, J. (*2016*) Evaluating Acceptability and Efficacy of Antidepressant Medications using Patients Comments in Social Media. Extended Abstract, *American Medical Informatics Association, Annual Symposium*, *November, 2016*. https://knowledge.amia.org/

9. **Faiola, A**., Srinivas, P., & Karanam, Y. (2014). A novel approach to ICU data visualization and communication integration. Extended Abstract. *Workshop on Interactive Systems in Healthcare (WISH 2014). In Conjunction with the American Medical Informatics Association Annual Symposium.* https://wish2014.files.wordpress.com/2014/10/sub-18-paper-wish_tp_faiola-srinivas-karanam_final.pdf

10. Srinivas, P., & **Faiola, A.** (2014). Smartphone dependency and consciousness: Observing flow in the everyday life. Extended Abstract. *Indiana University—Purdue University, Research Day, April 11, 2014.* https://scholarworks.iupui.edu/bitstream/handle/1805/5317/Srinivas

11. Srinivas, P., & **Faiola, A.** (2014). Modeling daily rounds to support efficient task management in ICU workflow. Extended Abstract, *Workshop on Interactive Systems in Healthcare (WISH 2014). In conjunction with the American Medical Informatics*

*Association Annual Symposium.* https://wish2014.files.wordpress.com/2014/10/sub-19-wish_poster_-srinivas-faiola_final.pdf

12. **Faiola, A.,** Srinivas, P., Karanam, Y., Chartash, D., & Doebbeling, B. (2014). VizCom: a novel workflow model for ICU clinical decision support. Extended Abstract. ACM *CHI'14, Human Factors in Computing Systems*, *Association for Computing Machinery,* Toronto, Canada, 1705-1710. https://doi.org/10.1145/2559206.2581332

13. **Faiola, A**. (2013). Sociocultural-embodied consciousness: an integrated theory (Телесный подход к когнитивным процессам и социокультурное сознание: интегративная теория), Extended Abstract, *Proceedings of the 13th International Readings of L.S. Vygotsky: Psychology of Consciousness: Origins and Perspectives*, Russian State University for the Humanities, Vygotsky Institute of Psychology, Moscow, Russia. http://vestnik.rsuh.ru/article.html?id=2630350

14. **Faiola, A**. (2013). Distributed Creative Activity: Augmenting Interpersonal Cognition in Clinical Activity through Health Information Technology, Extended Abstract, The Concepts of O.K. Tikhomirova and A.V. Brushlinsky and the Fundamental Problems of Psychology (80th birthday) (Идеи О.К. Тихомирова и А.В. Брушлинского и фундаментальные проблемы психологии). (*Parallel Session on the Psychology of Humans Immersed in Information Technology)*, *Moscow State University, Moscow, Russia, May 30 - June 1, 2013*, 295-299. http://www.psy.msu.ru/science/conference/tihomirov80/abstract_book.pdf

15. **Faiola, A**., Boston-Clay, C., Jones, J., Newlon, C., Downey, M., & Comer, S. (2012). Managing patient health across diverse spaces: Using activity theory to model clinical decision-support for the home. Extended Abstract, *Workshop Bridging Clinical and Non-Clinical Health Practice: Opportunities and Challenges, ACM CHI '12, Austin, TX, May 5, 2012.* https://www.ics.uci.edu/~yunanc/chi2012health/Downloads/Faiola.pdf

16. Boston-Clay, C., Jones, J., & **Faiola, A**. (2012). The Power of a Triangulation Study in Healthcare System Implementation. Extended Abstract, *Workshop Bridging Clinical and Non-Clinical Health Practice: Opportunities and Challenges, ACM CHI '12, Austin, TX, May 5, 2012*. https://www.ics.uci.edu/~yunanc/chi2012health/Downloads/Clay.pdf

17. Stupiansky, N., **Faiola, A**. & Defazio, J. (2011). The Effects of a computer-based driving game on hypoglycemia education among adolescents with type-1 diabetes, Extended Abstract and Poster, *Chronic Illness and Other Medical Issue, Journal of Adolescent Health, 48*(2), S24-S25. https://www.jahonline.org/article/S1054-139X(10)00575-6/fulltext

31. Matei, S. A., Bruno, R. J., Morris, P. L., & **Faiola, A**. (2010). Visible Effort: A Social Entropy Methodology for Managing Computer-Mediated Collaborative Learning, Extended Abstract, *4th Global Communication Forum*, Shanghai, China, September 29-30, 2010. http://matei.org/ithink/?p=22040

32. **Faiola, A**. & Rosenbaum, H. (2002). Challenges in teaching usability theory and testing for new media and novel interface technologies. Extended Abstract. *Forum for Educators of Human-Computer Interaction, CHI '02 Conference*, *Minneapolis, MN*.

## Refereed Conference Posters, Demos, and Workshops [Total: 24]

1. **Faiola, A.**, Abraham, J. & Papautsky, E.L. (2019). Delivering Patient Information and Access to Mental Health Counseling for ICU Families: Towards a Human-Centered Mobile Health System for Room-to-Family Communication. Poster, Extended Abstract and Presentation, *Proceedings from Human Factors and Ergonomics in Health Care, Chicago, IL, March 2019.*

2. **Faiola, A.,** Minh, H, & Bergey, D. (2019). Supporting the Mental Health of Families in the ICU: A Family-Centered Approach to Mobile Information Communication. Poster, University of Illinois at Chicago, Research Day, April 7, 2019.

3. **Faiola, A.**, Belkacem, I., Bloodworth, M., Bergey, D., Pecci, I., & Martin, B. (2019). Towards the Design of a Smart Glasses Application for MICU Decision-Support: Assessing the Human Factors Impact of Data Portability and Accessibility, Poster, *Human Factors and Ergonomics in Health Care, Chicago, IL, March 2019.*

4. Greenhill, K., **Faiola, A.** Lebowiz, L. & Bond, S. (2017). Creating Common Ground: A Medical Visualization Tool to Aid Physician / Family Communication in a Medical Intensive Care Unit Setting, Poster, *Applied Health Sciences Research Day*, November 1, 2017, University of Illinois at Chicago.

5. Boyd AD, Abraham J, Kitsiou S, Papautsky E, & **Faiola A.** (2017). Health Informatics Research Projects, Medical Technology Enterprise Consortium (MTEC), Poster, 2nd Annual Conference, March 30th, 2017. San Antonio, TX.

6. Tunnell, H. D., **Faiola, A.** & Bolchini, D. (2017). Guidelines to Incorporate a Clinician User Experience (UX) into the Design of Patient-Operated mHealth. Poster and Interactive Demo, *CHI 2017, ACM CHI Conference, Denver, CO*, April. 2017.

7. Zolnoori, M. Patrick, T. B., Conways, M., **Faiola, A.,** & Luos, J. (*2016*) Evaluating Acceptability and Efficacy of Antidepressant Medications using Patients Comments in Social Media. Poster, *American Medical Informatics Association, Annual Symposium*, *November, 2016.*

8. Tunnell, H. D., **Faiola, A.** & Pfaff, M. (2016). Secondary Users and the Personal mHealth Record: Designing Tools to Improve Collaboration Between Patients and Providers, Poster: 2016 IEEE International Conference on Healthcare Informatics 2016 (ICHI) in Chicago, IEEE Computer Society.

9. Putka, J., Cavalcanti, L., Ahgharian, N., & **Faiola, A.** (2016) Reducing Cognitive Load of Unmanned Aerial Vehicle Soldier-Operators: A Novel Weapon-UAV Control Design, *IUPUI Research Day Poster Session, April 8.*

10. Srinivas, P, Cavalcanti, L., & **Faiola, A.** (2016) The Impact of Excessive Smartphone Usage: A Study on Flow and the Psychosocial Wellness of Students, *IUPUI Research Day Poster Session, April 8.*

11. Ansah-Koi, K., Srinivas, P., Strzeszkowski, D., Gross, M., & **Faiola, A.** (2016) Building Healthy Social Media for All: Investigating How Different Cultures Seek and Process Health Information, *IUPUI Research Day Poster Session, April 8.*

12. Srinivas, P. & **Faiola, A.** (2015). Improving patient safety: Integrating data visualization and communication into ICU workflow to reduce cognitive load. Poster. *Human Factors and Ergonomics in Health Care (Improving the Outcomes)*, April 26, 2015, Baltimore, MD.

13. Srinivas, P., & **Faiola, A.** (2014). Modeling daily rounds to support efficient task management in ICU workflow. Poster, *Workshop on Interactive Systems in Healthcare (WISH 2014). In conjunction with the American Medical Informatics Association Annual Symposium, November 15, 2014.*

14. **Faiola, A.** & Srinivas, P. (2014). Extreme mediation: observing mental and physical health in everyday life. Poster. *Proceedings of the 2014 Association for Computing Machinery (ACM) International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2014),* September 2014.

15. Boston-Clay, C., Jones, J., **Faiola, A.,** Dixon, B. & Pfaff, M., (2014). AMIA 2014, Assessing Health Information Technology Acceptance: Developing a Human Computer Interaction Activity-Centered Acceptance Framework, *Dissertation Poster, American Medical Informatics Association (AMIA) Annual Symposium, Washington, DC,* November 15-19, 2014.

16. Finch, R. J., Srinivas, P., Karanam, Y., Koval, O., & **Faiola, A.** (2014). Augmenting consciousness through invasive technologies: How do cochlear implant patients engage activity in the world? *Indiana University—Purdue University, Research Day, April 11, 2014.* Poster and Extended Abstract.

17. **Faiola, A.,** Srinivas, P., Karanam, Y., & Koval, O. (2014). Reducing diagnostic error in the ICU: A novel approach to clinical workflow -- visualization-communication integration. *Indiana University—Purdue University, Research Day, April 11, 2014.* Poster and Extended Abstract.

18. Srinivas, P., Karaham, Y., Chartash, D., Doebbeling, B., & **Faiola, A.** (2014). VizCom: A Novel Workflow Model for ICU Clinical Decision Support. In ACM CHI '14, Poster Session, May 1, Toronto, Canada. New York, NY: Association for Computing Machinery Press.

19. **Faiola, A.,** Srinivas, P., Karanam, Y. & Kovel, O. (2014). Reducing Diagnostic Error in the ICU: A Novel Approach to Clinical Workflow—Visualization-Communication Integration, *IUPUI Research Day Poster Session, April 11.*

20. Finch, R.J., Srinivas, P., and Karanam, Y., Koval, O., & **Faiola, A**. (2014). Augmenting Consciousness through Invasive Technologies: How Do Cochlear Implant Patients Engage Activity in the World? *IUPUI Research Day Poster Session, April 11.*

21. Srinivas, P. & **Faiola, A**. (2014). Smartphone Dependency and Consciousness: Observing Flow in Everyday Life, Poster, *IUPUI Research Day, April 11.*

22. Karaham, Y., **Faiola, A**., & Chartash (5/25/2013) MIVA: Decision Support, *Poster Session.* World Usability Day, IUPUI, Indianapolis, IN.

23. Stupiansky, N., Cummings, T., **Faiola, A**., Defazio, J. & Orr, D. P. (2011). The Effects of a Computer-Based Driving Game on Hypoglycemia Education among Adolescents with Type-1 Diabetes, *Abstract/Poster for the Society for Adolescent Health and Medicine*, *Poster Session*, 2011 Annual Conference, Seattle, Washington, March 29-April 1.

24. **Faiola, A.** and Rosenbaum, H. (4/23/2002). *Challenges in teaching usability theory and testing for new media and novel interface technologies*. *Special Interest Group Forum for Educators of HCI, ACM CHI '02 Conference*. *Poster Session*, Minneapolis, MN.

## Invited Book Chapters [Total: 12]

1. **Faiola A.,** Vatani H., & Srinivas P. (2018) The Impact of Smartphone Use on the Psychosocial Wellness of College Students. In: *Alexandrov D., Boukhanovsky A., Chugunov A., Kabanov Y., Koltsova O. (eds) Digital Transformation and Global Society. DTGS 2018. Communications in Computer and Information Science, vol 859*. Springer, Cham., *264-276.* https://doi.org/10.1007/978-3-030-02846-6_21

2. Bolchini, D., & **Faiola, A**. (2013). Usability assessment. In: *Dubitzky, W., Wolkenhauer, O., Yokota, H., and Cho, K.H. (Eds.). Encyclopedia of Systems Biology*. New York: Springer Science and Business Media, pp. 2328-2329. DOI**:** https://doi.org/10.1007/978-1-4419-9863-7_217

3. **Faiola, A.** & Newlon C. (2011) Advancing Critical Care in the ICU: A Human-Centered Biomedical Data Visualization Systems. In: *Robertson M.M. (eds) Ergonomics and Health Aspects of Work with Computers. Ergonomics and Health Aspects of Work with Computers. Lecture Notes in Computer Science, Vol 6779*. Springer, Berlin, Heidelberg, 119-128. https://doi.org/10.1007/978-3-642-21716-6_13

4. Bolchini D. & **Faiola A.** (2011) The Fusing of "Paper-in-Screen": Reducing Mobile Prototyping Artificiality to Increase Emotional Experience. In: *Marcus A. (eds) Design, User Experience, and Usability. Theory, Methods, Tools and Practice. DUXU 2011. Lecture Notes in Computer Science, vol 6770. Springer, Berlin, Heidelberg*, 548-556. https://link.springer.com/chapter/10.1007/978-3-642-21708-1_61

5. **Faiola, A**. & Kharrazi, H. (2010). Diabetes education and serious gaming: Teaching adolescents to cope with diabetes. In: *B. M. Hayes and W. Aspray (Eds.), Health Informatics: A Patient-Centered Approach to Diabetes. Cambridge, MA: MIT Press*, pp. 151-178.

6. Duke J., **Faiola A.,** & Kharrazi H. (2009) A Novel Visualization Tool for Evaluating Medication Side-Effects in Multi-drug Regimens. In: *Jacko J.A. (eds) Human-Computer Interaction. Interacting in Various Application Domains. HCI 2009. Lecture Notes in Computer Science, vol 5613. Springer, Berlin, Heidelberg*, pp. 478-487. https://doi.org/10.1007/978-3-642-02583-9_52

7. **Faiola A**. & Smyslova O. (2009) Flow Experience in Second Life: The Impact of Telepresence on Human-Computer Interaction. In: *Ozok A.A., Zaphiris P. (eds) Online Communities and Social Computing. OCSC 2009. Lecture Notes in Computer Science, vol 5621. Springer, Berlin, Heidelberg*, 574-583. https://doi.org/10.1007/978-3-642-02774-1_62

8. Kharrazi H., **Faiola A**., & Defazio J. (2009) Healthcare Game Design: Behavioral Modeling of Serious Gaming Design for Children with Chronic Diseases. In: *Jacko J.A. (eds) Human-Computer Interaction. Interacting in Various Application Domains. HCI 2009. Lecture Notes in Computer Science, vol 5613. Springer, Berlin, Heidelberg*, 335-344. https://doi.org/10.1007/978-3-642-02583-9_37

9. Luzcando E., Bolchini D., & Faiola A. (2009) Evaluating Usability-Supporting Architecture Patterns: Reactions from Usability Professionals. In: *Jacko J.A. (eds) Human-Computer Interaction. New Trends. HCI 2009. Lecture Notes in Computer Science, vol 5610. Springer, Berlin, Heidelberg*, 320-328. https://doi.org/10.1007/978-3-642-02574-7_36

10. **Faiola, A**. & Matei, S. (2007). Cultural cognitive style and the Web: Toward a theory and practice of web design for international users. In*: K. St. Amant (Ed.), Linguistic and Cultural Online Communication Issues in the Global Age. Hershey, PA: Idea Group Published*, pp. 143-159. https://www.igi-global.com/book/linguistic-cultural-online-communication

11. Faiola A., & Voiskounsky A.E. (2007) Flow Experience of MUD Players: Investigating Multi-User Dimension Gamers from the USA. In: *Schuler D. (eds) Online Communities and Social Computing. OCSC 2007. Lecture Notes in Computer Science, vol 4564. Springer, Berlin, Heidelberg*, 324-333. https://doi.org/10.1007/978-3-540-73257-0_36

12. Faiola, A. (2005). Toward an HCI theory of cultural cognition. In: *C. Ghaoui (Ed.), Encyclopedia of Human-Computer Interaction. Hershey, PA: Idea Group Published*, pp. 609-614.

### Book [Total: 2]

1. Faiola, A. (2003). *Typography for print and the Web: Web usability tools and methods*. (*Шрифты для печати и Web-дизайна*) Saint Petersburg, Russia: BHV Publishing GmbH.

2. Faiola, A. (2000). *Typography primer*, Sewickley, PA: Graphic Arts Technical Foundation Press.

### Educational Workbooks [Total: 5]

1. **Faiola, A.** & Johnson, C. (Ed). (2004). *Psychology of human-computer interaction*. (Course Workbook) Indianapolis: IUPUI Publishing Services.

2. **Faiola, A.** & Larew, M. (Ed). (2004). *Human-computer interaction: Advanced concepts*. (Course Workbook) Indianapolis: IUPUI Publishing Services.

3. Faiola, A. (Ed). (2003). *Human-computer interaction: Basic concepts for I300* (Course Workbook) Indianapolis: IUPUI Publishing Services.

4. Faiola, A. (Ed). (2002). *New media basics: Understanding message design theory in a post-information society*. New York: John Wiley and Sons, Inc., Custom Services.

5. Faiola, A. (Ed). (2001). *Human-computer interaction: An overview of theories for user interface design and usability*. New York: John Wiley and Sons, Inc., Custom Services.

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## OTHER PUBLICATIONS

### Non-Refereed Papers / Reports [Total: 7]

1. Faiola, A. (2004). Advancing the design of more useable technologies: Human-computer interaction at IUPUI, *Informatics, 2*(2), 14-15.

2. Faiola, A. (2004). *Information Visualization: The mountain-view project. Informatics, 2*(2), 16.

3. Faiola, A. (2000). Culture and visual intelligence: A cross-cultural comparison of American and Russian students in visualization processes. *International Association for Cross-Cultural Psychology Bulletin.*

4. Faiola, A. (1998). *A Proposal for the collaboration of education & industry: A joint venture in digital technologies R&D for the graphic communications industry*. Unpublished report. Purdue University, West Lafayette, Indiana.

5. Faiola, A. (1998). *Proposal for a new curriculum option: digital imaging & prepress management.* Unpublished report. Purdue University, West Lafayette, Indiana.

6. Faiola, A. (1989). Enhancing the skills of the graphic specialist for CBT development. *Instruction Delivery Systems*.12(5), 12-14.

7. Faiola, A. (1988). Principles and Guidelines for a Screen Display Interface. *VideoDisc Monitor*. 8(2), 27-29.

### Educational / Training Interactive Learning Systems [Total: 4]

1. Faiola, A. (1986). *Oil exploration*. The Center of Science and Industry, Computer-Based Educational System. Columbus, OH.

2. **Faiola, A.,** & DeBloois, M. (1986). *Power plant pressurization procedures*.  American

Electric Power Company. Columbus, Ohio.

3. **Faiola, A.,** & DeBloois, M. (1986). *Hotel procedures: Pickett suite hotels training.* Columbus, Ohio.

4. Faiola, A. (1984). *Computer-aided instruction support: Agronomy 290.* Computer-Based Educational System. The Ohio State University Campus Network. School of Agriculture, Columbus, OH.

## Master's Theses and Doctoral Dissertation [Total: 3]

1. Faiola, A. (2005). *Cross-cultural cognition and online information design: Identifying cognitive styles among web designers of diverse national origin.* Ann Arbor, MI: UMI. http://docs.lib.purdue.edu/dissertations/AAI3191458/

2. Faiola, A. (1984). *A computer-assisted instruction overview and prototype.* Unpublished master's thesis, The Ohio State University, Columbus, OH.

3. Faiola, A. (1979). *The transient object: A look at contemporary thinking and issues as applied to my recent artwork.* Master's Abstracts International, 65 l.

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# PRESENTATIONS                                    [*First Name = Primary Presenter*]

## Refereed Presentations / Talks [Total: 61]

1. Zolnoori, M., Ngufor, C., **Faiola, A.,** Eldredge, C. E., Luo, J. Patrick, T., Sohn, S. BallsBerry, J. Tafti, A. & Shah, N. (Nov 6, 2019). *Identifying factors affecting drug discontinuation in patients with depression: Text analysis of patient drug review posts.* (S09: Oral Presentations – Mental Health) Presented at the American Medical Informatics Association, Annual Symposium, Washington, DC. https://www.amia.org/amia2019/oral-presentations

2. Faiola, A. (Feb 14-15, 2019). *mHealth that supports the role of the MICU nurse in family mental healthcare,* Presented at*:* Session 4: Informatics Support for Practice-based Knowledge Generation and Nursing and Healthcare Practice Sponsored by Shadow Health, Health Informatics Kobb Symposium, College of Nursing, University of Florida, Gainesville, FL. https://kobbsymposium.nursing.ufl.edu/topics/

3. **Faiola, A.** (Nov 11, 2018). *FAMcare: A MICU Room-to-Mobile System—Supporting the Communication Needs of Families,* Presented at the: American Medical Informatics Association, Annual Symposium, San Francisco, CA. https://symposium2018.zerista.com/event/member/508059

4. Zolnoori, M., **Faiola, A**., & Patrick, T. B (Nov 11, 2018). *Utilizing Consumer Health Posts to Identify Underlying Factors Associated with Patients' Attitudes towards Antidepressants,* Presented at: American Medical Informatics Association, Annual Symposium, San Francisco, CA. https://knowledge.amia.org/67852-amia-1.4259402/t006-1.4263223/t006-1.4263224/2976194-1.4263228/2973531-1.4263225

5. **Faiola, A.,** Vatani, H., Greenhill, K., Bhuma, M., & Agarwal, M. (May 21, 2018). *HYPOalert: Designing Mobile Technology for Hypoglycemic Detection and Monitoring—Based on Human Breath,* Presented at the: 11th Pervasive Health Conference 2018, New York Academy of Medicine, New York, New York.

6. **Faiola, A.,** Vatani, H., & Srinivas, P. (June 1, 2018). *The impact of smartphone use on the psychosocial wellness of college students*, Presented at the: 3rd International Conference—Digital Transformation and Global Society 2018, St. Petersburg, Russia,.

7. **Faiola, A.,** Khairat, S., & Kaufman, D. (June 29, 2016). *From coexistence to convergence: The pedagogical transpositioning of human-computer interaction within biomedical informatics*. Presented at the: 2016 InSpire, Education Symposium, American Medical Informatics Association. Panel/Presentation (S12), Columbus, OH. https://www.amia.org/inspire2016/wed-sessions

8. **Faiola, A.,** Papautsky, E. L., & Greenhill, K. (Oct 5-7, 2017) eMental health for family members of ICU patients: Findings that support a mobile family-centered approach to wellness, *7th Annual European Conference on Mental Health,* Berlin, Germany.

9. **Faiola, A.** & Srinivas, P. (Oct 8-12, 2017). Excessive smartphone use and mental health: The impact of extreme mediation on psychosocial wellness, *17th World Congress of Psychiatry (World Psychiatric Assoc.)*, Berlin, Germany.

10. Boyd AD, Abraham J, Kitsiou S, Papautsky E, & **Faiola A.** (March 30, 2017). Health Informatics Research Projects, Medical Technology Enterprise Consortium (MTEC), Presentation, 2nd Annual Conference, San Antonio, TX.

*11.* **Faiola, A.,** Papautsky, E. L. and Joo, M. Supporting Patient Healing through ICUsmartCARE: Technologies that Enable Family Collaboration, Presence, and Information Flow, *2016 IEEE International Conference on Healthcare Informatics (ICHI)*, 2016, pp. 297-300. doi: 10.1109/ICHI.2016.42.

12. **Faiola, A.** Srinivas, P. & Duke, J. (Nov 18, 2015). Supporting clinical cognition: a human-centered approach to a novel ICU information visualization dashboard, Presented at: *American Medical Informatics Association, Annual Symposium*, *2015*, San Francisco, CA. https://pubmed.ncbi.nlm.nih.gov/26958190/

13. Srinivas, P., **Faiola, A.,** & Doebbeling, B. (Oct 15, 2015). A Ubiquitous Situation-Aware Data Visualization Dashboard to Reduce ICU Clinician Cognitive Load, Presented at: *IEEE HealthCom 2015 Conference, Boston, MA*.

14. Srinivas, P., **Faiola, A.,** & Khan, B. (Oct 15, 2015). Supporting Information Management in ICU Rounding: A Novel Mobile System for Managing Patient-Centered Notes and Action-Items, Presented at: *IEEE HealthCom 2015 Conference, Boston, MA*.

15. Srinivas, P., Tunnell, H., **Faiola, A.,** & Haggstrom, D. (Oct 11, 2015). Clinicians as Secondary Users of Patient-Centered, Mobile Technology in Complex Healthcare Settings, Presented at: *IEEE HealthCom 2015 Conference, Boston, MA*.

16. Srinivas, P. & **Faiola, A.** (April 26, 2015). Improving patient safety: Integrating data visualization and communication into ICU workflow to reduce cognitive load. Presented at: *Conference for Human Factors and Ergonomics in Health Care (Improving the Outcomes) April 26, 2015, Baltimore, MD*.

17. **Faiola, A.** & Srinivas, P. (Sept 15, 2014). Extreme mediation: observing mental and physical health in everyday life. Presentation. *Proceedings of the 2014 Association for Computing Machinery (ACM) International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2014).*

18. **Faiola, A**., Srinivas, P., & Karanam, Y. (Nov 15, 2014). A novel approach to ICU data visualization and communication integration. Presentation. WISH 2014, *Workshop on Interactive Systems in Healthcare (WISH), Washington, DC. In Conjunction with the*

*American Medical Informatics Association Annual Symposium.*
https://wish2014.wordpress.com/

19. **Faiola, A.,** Srinivas, P., Karanam, Y., Chartash, D., & Doebbeling, B. (April 23-31, 2014). VizCom: a novel workflow model for ICU clinical decision support. Extended Abstract. ACM *CHI'14, Human Factors in Computing Systems*, *Association for Computing Machinery,* Toronto Ontario, Canada.
https://dl.acm.org/doi/10.1145/2559206.2581332

20. Srinivas, P., & **Faiola, A.** (Nov 15, 2014). Modeling daily rounds to support efficient task management in ICU workflow. Presented at: *WISH: Workshop on Interactive Healthcare Systems, Washington, DC, in conjunction with the American Medical Informatics Association (AMIA) Annual Symposium.*

21. **Faiola, A.** & Srinivas, P. (Oct 22, 2014). Reducing error in the intensive care unit: A novel approach to workflow modeling and distributed clinical intelligence. Presented at: *eHealth Initiative's Data and Analytics Council Webinar: A System Approach to Healthcare*.

22. Boston-Clay, C., Jones, J., **Faiola, A.,** Dixon, B. & Pfaff, M., (Nov 15, 2014). Assessing Health Information Technology Acceptance: Developing a Human Computer Interaction Activity-Centered Acceptance Framework, Presented at: *Dissertation Review, Presented at the Conference for American Medical Informatics Association (AMIA) Annual Symposium, Washington, DC, November 15-19, 2014*.

23. Srinivas, P**.** & **Faiola, A**. (Sept 13, 2014). Extreme mediation: Observing mental and physical health in everyday life, Presented at: *2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing, Presentation, Seattle, WA*.

24. Srinivas, P., & **Faiola, A.** (April 26, 2014). Modeling daily rounds to support efficient task management in ICU workflow. Presented at: WISH 2014: *Workshop on Interactive Healthcare Systems*, Presentation *Nov. 15,2014, Washington, DC.*

25. **Faiola, A.,** & Srinivas, P. (Nov 15, 2014). A novel approach to ICU data visualization and communication integration. Presented at: *Workshop on Interactive Systems in Healthcare (WISH), AMIA, Washington, DC. (in conjunction with the American Medical Informatics Association (AMIA) Annual Symposium).*

26. **Faiola, A**. (Nov 16, 2013). Sociocultural-Embodied Consciousness: An Integrated Theory, Presented at: *13th International Readings of L.S. Vygotsky: Psychology of Consciousness: Origins and Perspectives, Russian State University for the Humanities, Vygotsky Institute of Psychology*, Moscow, Russia, November 12-16, 2013.

27. **Faiola, A.** (May 31, 2013) Distributed Creative Activity: Augmenting Interpersonal Cognition in Clinical Activity through Health Information Technology. Presented at: *Scientific Conference on Fundamental Problems of Psychology, Extended Abstracts, Parallel Session on the Psychology of a Humans Immersed in Information Technology*, Moscow State University, Moscow, Russia.

28. **Faiola, A**., Boston-Clay, C., Jones, J., Newlon, C., Downey, M., & Comer, S. (May 5, 2012). Managing patient health across diverse spaces: Using activity theory to model clinical decision-support for the home. Presentation, *Workshop Bridging Clinical and Non-Clinical Health Practice: Opportunities and Challenges, ACM CHI '12,* Austin, TX.

29. **Faiola, A.,** Boston-Clay, C., Jones, J., Newlon, C., & Downey, M. (May 2012). Managing Patient Health Across Diverse Spaces: Using Activity Theory to Model Clinical Decision-Support for the Home. Presented at: *ACM CHI '12 Extended Abstracts on Bridging Clinical*

*and Non-Clinical Health Practices: Opportunities and Challenges*, *Workshop, Austin, TX.* New York, NY: Association for Computing Machinery Press.

30. Bolchini, D. & **Faiola, A**. (July 15, 2011). It's Mobile Before It's Real: Extreme Prototyping with "Paper-in-Screen, In G. Salvendy and J. Jacko (Ed.), Presented at: *14th International Conference on Human-Computer Interaction.* Orlando, FL, 2011 (Lawrence Erlbaum).

31. **Faiola, A**. & Newlon, C. (July 15, 2011). Advancing Critical Care in the ICU: A Human-Centered Biomedical Informatics Approach to Designing Data Visualization Systems, In G. Salvendy and J. Jacko (Ed.), Presented at: *14th International Conference on Human-Computer Interaction*. Orlando, FL, 2011 (Lawrence Erlbaum).

32. **Faiola, A**. & Downey, M. (Nov 15, 2011). Transforming Clinician Psychology via Health Information Technology as Tools of Mediation: Understanding Medical Information Visualization Systems Using Cultural-Historical Theory, Presented at: *12th International Readings of L.S. Vygotsky: Sign as a Psychological Tool, Russian State University for the Humanities*, Moscow, Russia, November 14-17.

33. Pulido, D., Bolchini, D. & **Faiola, A**. (Feb 4, 2010). Paper-in-screen prototyping: Rapid techniques to test and anticipate the mobile user experience. Presented at: *Interaction Design 2010, 10th Annual International Conference*. Savannah, GA.

34. Edgardo, L., Bolchini, D. & **Faiola, A**. (July 2, 2009). Evaluating usability-supporting architectural patterns: Towards bridging the communication gap between software engineers and usability professionals. Presented at: Presented at: *13th International Conference on Human-Computer Interaction*. San Diego, CA.

35. Duke, J. & **Faiola, A**. (July 23, 2009). Health Informatics and Drug Effect Ranking: A Novel Data Visualization of Medication Side-Effects in Multi-Drug Regimens. Presented at: Presented at: *13th International Conference on Human-Computer Interaction*. San Diego, CA.

36. **Faiola, A.** & Smyslova, O. (July 23, 2009). Flow experience and telepresence in second life: Correlating pleasure, immersion, and interaction in virtual communities. Presented at: Presented at: *13th International Conference on Human-Computer Interaction*. San Diego, CA.

37. Kharrazi, H. & **Faiola, A.** (July 24, 2009). Healthcare Game Design: Behavioral Modeling of Serious Gaming Design for Children with Chronic Diseases. Presented at: Presented at: *13th International Conference on Human-Computer Interaction*. San Diego, CA.

38. Newlon, C., **Faiola, A.,** & MacDorman, K. (July 9, 2008). Building the Mega-Collaboration Interface: Behavioral, Cultural, and Cognitive Factors in the Design, Presented at: *The HCI Symposium – Information Visualization Conference 2008, IEEE*, **London, England**.

39. **Faiola, A.** & Hillier, S. (Feb 17, 2007). Expediting Health Care Decision-Making Using Multivariate Relational Datasets: A Medical Data Visualization System for Complex Critical Care Patient Assessments. Presented at: *Workshop on HCI and Information Design to Communicate Complex Information*, University of Memphis, Memphis TN.

40. Voiskounsky, A. E. & **Faiola, A**. (July 23, 2007). Flow experience of MUD players: Investigating multi-user dimension gamers from the USA. Presented at: *12th International Conference on Human-Computer Interaction*. Beijing: China.

41. **Faiola, A.** & Matei, S. A. (March 15, 2007). *Online education and the cross-cultural learner: Toward a theory of cultural cognitive design for the web. Session: Research on Learning in Virtual Environments*. Presented at: American Educational Research Association 2007 Annual Meeting, Chicago, Illinois.

42. Matei, S. A., Wheatley, D. J., & **Faiola, A**. (June 19, 2006). *Multipurpose mobile devices, graphic user interfaces and physical affordances: a case study*. Presented at the: International Communication Association Conference, Dresden, German.

43. Beatty, K, Elliott, R. & **Faiola, A.** (June 28, 2006). Seeking news on the internet: an analysis of user behavior in selecting online media outlets. Presented at: *6th Biennial Conference on Cultural Attitudes Towards Technology and Communication*, University of Tartu, Estonia.

44. Newlon, C. & **Faiola, A.** (June 28, 2006). Support for mega-team collaboration. Presented at: *6th Biennial Conference on Cultural Attitudes Towards Technology and Communication*, University of Tartu, Estonia.

45. **Faiola, A.** & Hillier, S. (July 5, 2006). Multivariate relational visualization of complex clinical datasets in a critical care setting: a data visualization interactive prototype. Presented at: *Information Visualization Conference 2006*, London, England.

46. Faiola, A. (July 25, 2005). Integrating the Visualization of Personal Histories to Enhance File Search in 3D Landscapes: Applying File Search to 3PDPView. Presented at: *11th International Conference on Human-Computer Interaction.*, Las Vegas, NV.

47. **Faiola, A**. & Matei, S. (May 17, 2005). The cultural cognitive style of multimedia development: Identifying designer cognitive structures for the web. Presented at the: *International Communication Association Conference*. New York City, NY.

48. Faiola, A. (May 25, 2005). *The Design Enterprise: Rethinking the HCI Education Paradigm.* Presented at: Presented at: *11th International Conference on Human-Computer Interaction.* Las Vegas, NV.

49. Faiola, A. (May 25, 2005). *Cross-Cultural Computer-Mediated Communication and Online Learning: Assessing the Impact of Web Designer Cognitive Style on Information Design.* Presented at: *11th International Conference on Human-Computer Interaction.* Las Vegas, NV.

50. Faiola, A., (May 22, 2004). Living with computing: Thoughts on humanizing technology. (Colloquium Presentation.) Presented at the: *Second International Conference on New Directions in the Humanities, 2004*, Monash University Centre, Prato, Italy.

51. Buher, M. & **Faiola, A**. (May 24, 2004). Using 3D landscapes to navigate filespace: Extending the data mountain with mountainview. Presented at the: *HCI Symposium – Information Visualization Conference 2004, IEEE*, London, England.

52. Faiola, A. (July 10, 2003). *The Copernican shift: HCI education and the design enterprise*. Presented at: *10th International Conference on Human-Computer Interaction.* Crete, Greece.

53. Faiola, A. (June 27, 2003). *eBook Technologies in America and Russia*. Presented at the: Conference of the World Bank and Russian National Fund of Education and Training for Schoolbook Editors and Editorial Staff, Moscow, Russia.

54. Faiola, A. (June 24, 2003). *Children's Book Typography: An Overview of Practice and Empirical Study*. Presented at the: Conference of the World Bank and Russian National Fund of Education and Training for Schoolbook Editors and Editorial Staff, Moscow, Russia.

55. Faiola, A. (May 28, 2002). *eBook Market Potential in Russia: Trends, Copyrights, and Technologies.* Presented at the: Council on University Publishing in Russia, 10th Annual Conference, Moscow, Russia.

56. Faiola, A. and Sturm, C. (April 22, 2002). *Aspects of Remote Testing*. Presented at the: Computer-Human Interaction Conference, It's A Global Economy Out There: Usability Innovation for Global Market Places. Minneapolis, MN.

57. Faiola, A. (April 22, 2002). *Cross-cultural studies of hypermedia design and accessibility*. Presented at the Workshop of the 2002 Computer Human Interaction Conference, It's A Global Economy Out There: Usability Innovation for Global Market Places. Minneapolis, MN.

58. **Faiola, A.** & Rosenbaum, H. (April 23, 2002). *Challenges in teaching usability theory and testing for new media and novel interface technologies*. Presented at the Educational Forum of the 2002 Computer-Human Interaction Conference, Minneapolis, MN.

59. Faiola, A. (April 22, 2002). *Russian and American Mental Models and the World-Wide-Web: A Cross-Cultural Study of Hypermedia Design and Accessibility*. Presented at the: 2002 Computer Human Interaction (CHI'02), Usability Workshop: Usability Innovation for Global Market Places, Minneapolis, MN.

60. Faiola, A. (Nov 18, 2001). *Understanding Usability for New Media Products: Design and Testing Principles for Graphic User Interfaces, Information Architecture, and Navigation*. Presented at the: Graphica 2001, International Conference on Graphics Engineering for Arts and Design, San Paulo Brazil.

61. Faiola, A. (April 2000). *Cross-cultural landscapes of visual intelligence: An investigation across cultural boundaries*. Iowa State University, Presented at the: International Visual Literacy Association Annual Conference, Ames, Iowa.

## Invited Research Presentations (U.S. and Abroad) [Total: 41]

1. Faiola, A. (2019). *mHealth Informatics: Integrating Interaction Design w/ Health Data Science*, Ramaiah University of the Health Sciences and College of Medicine, Bangalore, India.

2. Faiola, A. (April 26, 2018). *Enabling Human Systems: Biomedical and Health Informatics and Socio-Augmentation*, Presented to: Human Augmentics Group, University of Illinois at Chicago, Chicago, IL.

3. Faiola, A. (2018). *The Rise of the Digital Health Information Society? Empowering People by Connecting Mobile Health to Healthy Lifestyle Management* (Keynote), 3rd International Conference on Digital Transformations & Global Society, St. Petersburg State University of Info. Tech., Mechanics, and Optics, Russia.

4. Faiola, A. (2017). *Consumer Health Informatics: Empowering Patients with Noncommunicable Diseases through mHealth* (Keynote), International Conference on Informatics, Health, & Technology, King Saud bin Abdulaziz University for Health Science, Riyadh, Saudi Arabia. [IEEE] [Link]

5. Faiola, A. (April 28, 2017). *mHealth Design for Patient and Family Care: Recent Studies Supporting Healthy Lifestyle Management*, Presented to: Department of Biomedical Informatics, College of Health Solutions / Mayo Clinic, Arizona State University, Scottsdale, AZ.

6. Faiola, A. (Dec 5, 2017). *Biomedical Interaction Science: Applying Informatics to the Design and Analysis of mHealth Information Technologies*, Presented to: Biomedical and Health Informatics Colloquium Series, University of Illinois at Chicago, Chicago, IL.

7. Faiola, A. (March 31, 2016). *Biomedical & Health Informatics: Empowering Patients and their Families through mHealth*, Presented to: Department of Informatics, Health Informatics Faculty, UC Irvine, CA.

8. Faiola, A. (Dec 6, 2016). *Biomedical Interaction Science: The Study of Healthcare Interactions that Impact the Design and Implementation of Health IT*, Presented to: Biomedical and Health Informatics Colloquium, The University of Illinois at Chicago.

9. Faiola, A. (Nov 11, 2016). *Biomedical Interaction Science: A Journey from the Fine Arts to Biomedical Informatics*, Presented to: Department of Computer Science, The University of Illinois at Chicago.

10. Faiola, A. (Nov 3, 2016). *A Double Helix: Parallel Journeys Separated by Time—From the Fine Arts to the Health Sciences*, Presented to: Frank Armitage Biannual Lecture Forum, The Department of Biomedical Visualization, The University of Illinois at Chicago.

11. Faiola, A. (May 15, 2014). *Technologies that Transform Health and Wellness: The Effects of Non/Invasive Systems on Human Consciousness*, Presented at: DeVault Otologic Research Laboratory, Indiana University School of Medicine, Colloquium Lecture Series.

12. Faiola, A. (Sept 18, 2014). *Technologies that Transform Health and Wellness: The Effects of Non/Invasive Systems on Human Consciousness*. Presented at: Moscow State University, Department of Psychology, Moscow, Russia.

13. Faiola, A. (May 31, 2013) *Distributed Clinical Intelligence: A Decision-Support VizCom System that Supports Intensivist Activity in the ICU*, *Work-in-Progress Speaker Series: Invited Talks*. Presented at: Regenstrief Institute, Indianapolis, IN.

14. Faiola, A. (Sept 24, 2012). *Managing Patient Health Across Diverse Spaces: Using Cultural Historical Activity Theory to Model Pervasive Decision-Support*, Presented at: Department of Informatics, Umeå University, Sweden.

15. Faiola, A. (Sept 11, 2012). *Managing Patient Health Across Diverse Spaces: Using Cultural Historical Activity Theory to Model Pervasive Decision-Support*, Presented at: Laboratory of Human-computer Interaction and Group Technology, Department of Information Processing Science, University of Oulu, Finland.

16. Faiola, A. (Nov 20, 2011). *The Effects of Flow in Virtual Worlds and Game-Based Learning Behavior*. Presented to: St. Petersburg State University, Department of Psychology, St. Petersburg, Russia.

17. Faiola, A. (Nov 20, 2011). *Data Visualization as Psychological Tools of Mediation and Clinical Learning*. Presented at: Beijing University, Department of Computer Science, HCI Lab, Beijing, China.

18. Faiola, A. (Dec 3, 2011). *Clinical Decision Support InfoViz Systems: Modeling Complex Medical Space Using Cultural-Historical Activity Psychology*. Presented at: Tallinn University, Informatics Institute, Tallinn, Estonia.

19. Faiola, A. (Nov 17, 2011). *Data Visualization as Psychological Tools of Mediation and Clinical Learning*. Presented at: Moscow State University, Department of Psychology, Moscow, Russia.

20. **Faiola, A**. & Hillier, S. (March 22, 2010). *Medical Data Visualization System for Complex Critical Care Patient Assessments*. Presented at: Research Day and Community Research Showcase, Indiana University Research and Technology Corporation, Indianapolis, IN.

21. Bakowski, D., **Faiola, A**. & Witt, G. J. (Oct 3, 2008). *Transportation Usability,* Presented to the: World Usability Day, Workshop and Seminar, Indiana Chapter Usability Professionals' Association (UPA), Indianapolis, IN.

22. **Faiola, A.,** Hillier, S., & Saleem, J. (Nov 8, 2007). *Usability of Health Information Technology: Biomedical Human-Computer Interaction for Improving Patient Care.* Presented to the: World Usability Day, Workshop and Seminar, Indiana Chapter Usability Professionals' Association (UPA), Indianapolis, IN.

23. Faiola, A. (Nov 14, 2006). *Return on investment and Usability. World Usability Day, Workshop and Seminar,* Presented to the: Indiana Chapter Usability Professionals' Association (UPA), Indianapolis, IN.

24. Faiola, A. (Dec 17, 2004). *Principles of Design and Usability for Web Publishing.* Presented at: Moscow State University of the Printing Arts, Moscow, Russia.

25. Faiola, A. (Dec 14, 2004). *Computer Graphics and Prototype Construction: Engineering Products that Work for Humans.* Presented to the: House of Scientists, St. Petersburg, Russia.

26. Faiola, A. (Dec 18, 2004). *HCI Pedagogy: A New Framework.* Moscow State University, Presented to the: Department of Psychology and ACM CHI Chapter in Moscow, Russia.

27. Faiola, A. (June 12, 2003). *New Media Usability: Theory and Best Practices.* Presented to the: St. Petersburg Institute of Information Technology and Optics, Russia, Department of Computer Graphics and Engineering, St. Petersburg, Russia.

28. Faiola, A. (Dec 17, 2003). *Multimedia Interface Design and Usability.* Presented to the: Moscow State University of the Printing Arts, Department of Information Technology, Moscow, Russia.

29. Faiola, A. (May 21, 2002). *eBook Technologies: An Overview.* Presented to the: Moscow State University of the Printing Arts, Department of New Media and Distance Education. Moscow, Russia.

30. Faiola, A. (May 16, 2002). *Designing a User-Centered Web Interface: Design, Architecture and Usability.* Presented to the: Art and Design Institute of Berlin, Industrial Design Department, Berlin, Germany.

31. Faiola, A. (May 14, 2002). *Web Usability and International User Interfaces: Theory, Tools, and Techniques.* Presented to the: University of Bremen, Computer Science Department, New Media Program, Bremen, Germany.

32. Faiola, A. (May 13, 2002). *Designing a User-Centered Web Interface: Design, Architecture and Usability.* Presented to the: Delpht Technical University, Computer Science Department, Media Knowledge, Delpht, Netherlands.

33. Faiola, A. (May 5, 2002). *New Media Interface Design and Usability: Design Theory and Testing for Web Products.* Presented to the: University of Amsterdam, New Media Department, Amsterdam, Netherlands.

34. Faiola, A. (June 6, 2002). *Web Usability Theory Models for Teaching and Application.* Presented to the: House of Scientists, St. Petersburg, Russia.

35. Faiola, A. (May 5, 2002). *Curricula and Cross-Cultural Issues in Interactive Media Usability.* Presented to the: Mediamatic Design, Consulting Group, Amsterdam, Netherlands.

36. Faiola, A. (June 3, 2002). *New Media Usability: Theory and Best Practices.* Presented to the: St. Petersburg Institute of Information Technology and Optics (Tech University), Department of Computer Graphics and Engineering, St. Petersburg, Russia.

37. Faiola, A. (June 2000). *The New Media Enterprise: The Emergence of ePublishing.* Presented to the: Moscow State University of the Printing Arts, Moscow, Russia.

38. Faiola, A. (May 8, 2000). *Preparing the Digital Designer for Future Trends and Strategies in an Info-Graphic Global Society—Part 2. (Human-Computer Interaction: User Interface Design for the Web)*, Presented to the: St. Petersburg Institute of Information Technology and Optics, Russia. Department of Computer Graphics and Engineering, St. Petersburg, Russia.

39. Faiola, A. (Dec 13, 1999). *Preparing the Digital Designer for Future Trends and Strategies in an Info-Graphic Global Society—Part 1. (Visual Communication Theory and Design*. Presented to the: St. Petersburg Institute of Information Technology and Optics (Tech University), Russia. Department of Computer Graphics and Engineering, St. Petersburg, Russia.

40. Faiola, A. (May 20, 1999). *New Media Graphics Curricula: Pedagogy and Methodology*. Presented to the: House of Scientists, St. Petersburg, Russia.

41. Faiola, A. (May 11, 1999). *Digital Publishing in the New Millennium*. Presented at: St. Petersburg Institute of Information Technology and Optics, Department of Computer Graphics and Engineering. Midwest Universities Consortium International Association, St. Petersburg, Russia.

## Invited Service Presentations [Total: 10]

1. Faiola, A. (Feb 21, 2017). *Departmental Research Overview*. Presented at: Department of Health Informatics, King Saud bin Abdulaziz University for Health Science, Riyadh, Kingdom of Saudi Arabia.

2. Faiola, A., (Dec 21, 2011). *SoIC Recruitment Presentation: Research and Teaching and Overview of the Indiana University School of Informatics and Computing at IUPUI*, Presented to the: University of Public Relations, Beijing, China.

3. Faiola, A., (Dec 19, 2011). *SoIC Recruitment Presentation: Research and Teaching and Overview of the Indiana University School of Informatics and Computing at IUPUI*. Presented to the: School of Information Management, Sun Yat-Sen University, Guangzhou, China.

4. Faiola, A., (Dec 16, 2011). *SoIC Recruitment Presentation: Research and Teaching and Overview of the Indiana University School of Informatics and Computing at IUPUI*. Presented to the: School of Communication and Design, Sun Yat-Sen University, Guangzhou, China.

5. Faiola, A. (Oct 14, 2005). *Principles of web design and usability: Improving accessibility to law library online information*. Presented to the: Ohio Regional Association of Law Libraries (ORALL) and Chicago Area Law Librarians (CALL). Indiana University Purdue University Indianapolis, School of Law.

6. Faiola, A. (April 13, 2005). *Interaction design and system usability: Design an Effective strategy for Web and software development*. Presented to the: Indianapolis Quality Assurance Association Inc.

7. Faiola, A. (4/6/2005). *Web design and usability: Design an Effective strategy for academic Web development*. Presented to the: IUPUI Communications Division and Campus-Wide Web Deployment.

8. Faiola, A. (Nov 20, 2003). *Disciplinary Overview of Human-Computer Interaction: Bi-Annual Presentation to I502*. Presented to the: Indiana University – SoIC, IUPUI. Presented each semester to beginning graduate students.

9. Faiola, A. (March 14, 2001). *New Media Usability. TechConnect, Poster Session*, Presented to the: Indiana University Purdue University, Indianapolis, IN. (Invited presentation, initiated by the department.)

10. Faiola, A. (Feb 14, 2001). *Human Computer Interaction and Multimedia Usability Testing: Understanding the Key Components for Building Effective Interfaces*. Presented to the: Purdue University, Human Factors and Ergonomics Society, West Lafayette, IN.

## GRANTS & CONTRACTS

| Pending External Grants | | | | |
|---|---|---|---|---|
| **GRANTING AGENCY / TITLE** | **ROLE / EFFORT** | **AMOUNT** | **DATE** | **COLLABORATORS** |
| **Markey Cancer Center Community-Engaged Partnership Planning Applications (U of Kentucky)** Title: Addressing the mental health disparities of families (caregivers/next-of-kin) of cancer patients from rural Kentucky: Investigating the efficacy to reduce mental trauma using FamCare+, a mobile health service that connects families at home with the bedside. | **PI (Internal)** | $10K | 2022-2024 | **CoPIs:** Zhonglin Hao, MD, PhD, Professor of Medicine and Cancer Biology, College of Medicine |
| **American Cancer Society** Title: Canine-inspired Identification and Analysis of Volatile Organic Biomarkers of Prostate Cancer using Portable GC-MS and Development of a Hand-held Nanosensor System | **Co-I** 10% | $200K | 2022-2024 | **PI:** Mangilal Agarwal |
| **SBIR** Title: The PreventScripts Obesity Management Platform: A Study of Feasibility in the Primary Care Clinic Setting | **Consultant** 10% | $300K | 2022-2024 | **PIs:** Brandi Harless and Natalie Davis (PreventScripts Inc.), Co-I: Karen Roper (UK) |
| | | **$510,000** Total Funded | | |

## External Grants
### Active Awards

| GRANTING AGENCY / TITLE | ROLE / EFFORT | AMOUNT | DATE | COLLABORATORS |
|---|---|---|---|---|
| **Center for Computational and Translational Sciences (U of Kentucky)** <br> Title: A Usability and Clinical Pilot Study of a Serious (Interactive 3D) Game for Pulmonary ICU and Cancer Patients (Both) Suffering from Acute Cognitive Impairment Due to Extreme Neurotoxicity from a Prolonged Pharmacological Intervention | **PI (Internal)** | $9K | 2022-2023 | **PI:** A. Faiola <br> **Co-Is:** Peter Meulenbroek, Communication Sciences and Disorders; John Villano, MD, PhD, Heidi Weiss, PhD, Ashley Montgomery-Yates, College of Medicine |
| **MERCK** <br> **Comprehensive Connected Cancer Care (C4) Center** <br> **Grant Site Link.** | **Co-I** 5% & 7% (last year | $2M (5 Yrs.) (Effort: 5 Yrs.) | 2022-2027 | **Pamala Hull (PI)** Mullett, Timothy UK Co-I: Ming-Yuan Chih, UK |
| **USDA** <br> **Title:** Children Eating Well (CHEW) Smartphone Application for WIC Families <br> **ID#** 2017-68001-34846 <br> **Grant Site Link.** | **Co-I** 10% | $2,524,922 (5 Yrs.) (Effort: 2 Yrs.) | 2017-2024 | **Pamala Hull (PI)** College of Medicine, Behavioral Sciences |
| | | **$4,533,922** Total Funded | | |

## External Grants
### Past Awards & Contracts

| GRANTING AGENCY / TITLE | ROLE / EFFORT | AMOUNT | DATE | COLLABORATORS |
|---|---|---|---|---|
| **NIDILRR-ARCP** (Advanced Rehab Research Training Program) Dept. of Health & Human Services, Admin for Community Living. <br> **Title:** Advanced Training in Translational and Community-Engaged Scholarship to Improve Community Living & Participation for People with Disabilities <br> **ID#** 311122 <br> **Grant Site Link.** | **PI** 5% (Multiple PIs / Co-Directors on this project) | $999,995 (5 Yrs.) <br><br> (**NOTE**: *Co-Directorship and funding ended once PI moved to the University of Kentucky.*) | 2020-2025 | **Tamar Heller (PI)** Dept. of Intellectual Disability & Human Develop., UIC <br> **Yolanda Balcazar (PI)** Dept. of Occupational Therapy, UIC <br> **Angela Young (PI)** Dept of Kinesiol & Nutrition |
| **Agency for Healthcare Research & Quality Award #: AHRQ-R21HS025443-01** <br> **Title:** An Etiology for Medication Ordering Errors in CPOE Systems <br> **ID #:** R21 HS25443-02 | **Site PI** 10% | $297,108 (2 Yrs.) | 2018-2020 | **Joanna Abraham (PI)** Washington University (School of Medicine) |
| **NSF:** Smart and Connected Health | **Site PI** 30% | $738,311 (3 Yrs.+ 1 | 2015-2019 | **Kody Varahramyan (PI)** (U of Maine) (PI transferred |

| | | | | |
|---|---|---|---|---|
| **Title:** Canine-Inspired Smart Sensor for Detecting Hypoglycemia from Human Breath<br>**Award #:** 1502310 | | Yr. no-cost extension) | | to Agarwal)<br>**Mangilal Agarwal (Co-PI), Peter Roach (Co-PI), Sudhir Shrestha (Co-PI)**<br>Purdue U. (IUPUI) |
| **Contract:** King Saud Bin Abdulaziz University for Health Sciences (KSB), Office of the Dean<br>**Program Title:** Health Information Management Curriculum Licensing<br>**Program Link.** | 100% | $450,000 | 2017-2018 | **Majid Al Salamah Contract**<br>**Riyad Alshammari, Contract**<br>College of Public Health & Health Informatics, Riyadh, Saudi Arabia |
| **HASTAC: MacArthur Foundation Grant**<br>**Title:** Creatures Classified: An exploration of cataloging creatures across the galaxy<br>**Grant #:** 08-91858-000-HCD<br>**Grant Site Link.** | App PI for admin. oversight 2% | $40,000<br>1 Yr. | 2010 | **Mathew Powers (PI)**<br>**Clint Koch (CoPI)**<br>**Jennifer Stewart (CoPI)**<br>IU School of Informatics and Computing (Media Arts / Gaming Program) |
| **U.S. Dept. of Veterans Affairs**<br>Project #: RRP 06-156 (HSR&D Study)<br>**Title**: Clinical Handoff Tool Assessment<br>**Grant Site Link.** | Co-PI 7% | $6,800<br>1 Yr. | 2006 | **Bradley Doebbeling (PI)**<br>IU School of Medicine and the U.S. VA Medical Center, Indianapolis |
| **Clarian (Health) Grants Administration**<br>**Project #:** VFE-183<br>**Title:** Computerized Education to Prevent Hypoglycemia When Driving | PI 15% (Multiple PIs) | $79,841<br>2 Yrs. | 2007-09 | **Donald Orr (PI)**<br>IU School of Medicine<br>**Joseph DeFazio (PI)**<br>IU Schools of Informatics and Computing |
| **Walther Cancer Institute**<br>**Project #:** 601-3200-00-0002<br>**Title:** A Web-Based System to Support Family Caregiving for Cancer Patients | Co-PI 8.3% | $396,147<br>2 Yrs. | 2009-2011 | **Anna McDaniel, (PI)**<br>University of Florida (Previously IU School of Nursing) |
| **Midwest University Consortium Association**<br>**Title:** Digital Publishing in the New Millennium: Lectures Series | PI 100% | $2900 | 1999 | Purdue U. & Institute of Tech., Optical Design and Eng., St. Petersburg, Russia |
| **Walther Cancer Institute**<br>**Project #:** 601-3200-00-0002<br>**Title:** A Web-Based System to Support Family Caregiving for Cancer Patients | Co-PI 8.3% | $396,147<br>2 Yrs. | 2009-2011 | **Anna McDaniel, (PI)**<br>University of Florida (Previously IU School of Nursing) |
| | | **$5,536,024.00** Total Funded | | |

## Scholarship Funding

| GRANTING AGENCY / ROLE / TITLE | ROLE / EFFORT | AMOUNT | DATE | COLLABORATORS |
|---|---|---|---|---|
| **Fulbright Grant: Senior Specialist Lectures Title:** Communication & Online Publishing Technologies. <u>Fulbright Link</u>. | **PI** 100% | $6,000 | 2003 | Moscow State University of the Printing Arts, Russia |
| **Fulbright Grant: Senior Specialist Lecture Title:** Communication & eBook Technologies | **PI** 100% | $6,000 | 2002 | Moscow State University of the Printing Arts, Russia |
| **Fulbright Grant: Traditional Award Title:** Interactive Media, Usability, and Design Communication | **PI** 100% | $30,000 | 2000 | St. Petersburg State University of Information Technology, Mechanics, and Optics, SP, Russia |
| | | **$42,000** Total Funded | | |

## Internal University Grants
### *Awards for Research & Teaching Excellence*

| GRANTING AGENCY / ROLE / TITLE | ROLE / EFFORT | AMOUNT | DATE | COLLABORATORS |
|---|---|---|---|---|
| **Solution Center Grant:** Medical Information Visualization Assistant – System Design (Phase 1-4 Funding) | **PI** 100% | $73,600 | 2008-2014 | IU Schools of Informatics and Computing |
| **IU Research Support Funds Grant Application**, Support for Purchase of BioPac Psycho-physiological Measuring Equipment | **PI** 25% | $13,000 | 2010 | SoIC |
| **IUPUI Research Support Fund Grant** Using Interactive Games to Improve Treatment Adherence in Children with Type 1 Diabetes | **Co-PI** 10% | $29,000 | 2009 | SoIC |
| **IU Office of International Prog. Overseas Conf. Fund** 12th International Conf on Information Visualization: HCI Symposium | **PI** 100% | $600 | 2008 | SoIC |
| **IU International Travel Grant** CATac'06 Cultural Attitudes Towards Technology and Communication | **PI** 100% | $600 | 2006 | Estonia England |
| **IU International Travel Grant** Study of Cross-cultural Behavior of International Online Gamers | **PI** 100% | $2000 | 2006 | Moscow State University, Russia |
| **IU Research Grant, Part 1 and 2** Russian and American Cross-Cultural Study of Hypermedia Design and Accessibility | **PI** 100% | $3,070 | 2002-03 | SoIC & Institute of Tech., Optical Design & Engineer., St. Petersburg, Russia. |
| **IU International Travel Grant** The Copernican shift: HCI education and the design enterprise | **PI** 100% | $750 | 2003 | Crete, Greece |
| **Purdue Research Summer Grant** Qualifying Digital Color Targets for Skills and Knowledge Standard: | **PI** 100% | $5000 | 2000 | Graphic Arts Tech. Found. Pitts., PA |
| | | **$127,620.00 Total Funded** | | |

# PATENTS & COMPANIES
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## PATENTS

[1] **Product Name**: MIVA: Medical Information Visualization Assistant, A data visualization clinical decision support system for use in the ICU or other clinical-data-intense environments.
- **Patent #:** 8,645,164 B2
- **Patent date filed**: May 27, 2010
- **Patent date published**: January 6, 2011
- **Patent date**: February 4, 2014
- **Patent Expired**: 2018
- **Assignee**: Indiana University Research and Technology Corporation
- **Inventors**: Anthony Faiola, Indiana University (Indianapolis, IN);
        Simon C. Hillier, Dartmouth College (Etna, NH)
- **US Patent Link: [[LINK]](LINK)**

[2] **Product Name**: Low Power Wireless Sensor System with Ring Oscillator and Sensors for Use in Monitoring of Physiological Data.
- **Patent #:** 20150295562 (Provisional #)
- **Patent date filed**: April 13, 2015
- **Patent date published**: Oct. 15, 2015
- **Patent date**: Pending
- **Assignee**: Indiana University Research and Technology Corporation
- **Inventors**: Mangilal Agarwal, Purdue University (IUPUI)
        Anthony Faiola, Indiana University (IUPUI)
        Hosseign Jafarian, Purdue University (IUPUI)
        Sudhir Shrestha, Purdue University (IUPUI)
        Khodadad Varahramyan, University of Maine
        Ali Daneshkhah, Purdue University (IUPUI)
- **US Patent Link: [[LINK]](LINK)**

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## COMPANY

Advanced Insight Medical (AIM), LLC—Anthony Faiola, CEO
  Registered in Indiana, D&B DUNS Number: 078682124
  Dedicated to biomedical and health informatics and information science research that crosses the spectrum between clinical work environments to self-care / self-monitoring mobile technologies. The aim of the research is to produce health information technologies that are:
- **Safe**—reduces risk and mitigates error, while ensuring a safe healthcare experience for the patient,
- **Effective**—provides tools that facilitate communication and optimal delivery of clinical data and general health information through the use of innovative technology that enable patient care and family support that is both coordinated and informed, and
- **Efficient**—reduces waste (for clinicians, patients, or family members), with appropriate allocation of resources (physical/cognitive) to deliver safe and effective care.

**Descriptions**

| | |
|---|---|
| † | = New Course Development |
| †† | = Complete Revision |
| [R] | = Research Methods Courses Taught |
| [P] | = PhD Courses |

| | |
|---|---|
| UK | = University of Kentucky |
| UIC | = University of Illinois at Chicago |
| IU-SoIC | = Indiana University—School of Informatics and Computing |
| PU-PPI | = Purdue University—Purdue Polytechnic Institute |
| UIC | = University of Illinois at Chicago |
| HCC | = Human Centered Computing |
| HI | = Health Informatics |
| HIT | = Health Information Technology |
| HCI | = Human-Computer Interaction |
| * | = |

## Courses Taught and/or Developed (*1998 to Present*)

### *Master's and Ph.D.\* Courses Taught*

| COURSE# | COURSE TITLE | CLASS | SIZE | TYPE | UNIVERSITY |
|---|---|---|---|---|---|
| BHIS 501 | Health Informatics Capstone Project | **[R]** | 14 | | UIC |
| BHIS 593 | Design Thinking for Health: Seminar 1 | **[R]** | 5 | | UIC |
| BHIS 500 | Strategic Inquiry—Research Project | **[R]** | 1 | | UIC |
| H680 | HCI Professional Practice 1 (*Capstone*) | **[R]** | 15 | † | IU-SoIC |
| H681 | HCI Professional Practice 2 (*Capstone*) | **[R]** | 15 | † | IU-SoIC |
| H501 | Introduction to Informatics for HCI | **[P] [R]** | 24 | † | IU-SoIC |
| N500 | Foundations of Digital Arts Production | | 18 | †† | IU-SoIC |
| I541 | Human Computer Interaction 1 | | 15 | † | IU-SoIC |
| I564 | Prototyping for Interactive Systems | | 5 | † | IU-SoIC |
| I554 | Special Study in Computer-Mediated Com | | 5 | † | IU-SoIC |
| I543 | Usability and Evaluative Methods for HCI | **[R]** | 8 | † | IU-SoIC |
| I694 | Thesis in HCI | **[R]** | 3 | † | IU-SoIC |
| I624 | HCI Seminar I | **[P]** | 8 | † | IU-SoIC |
| I634 | HCI Seminar 2 | **[P]** | 3 | † | IU-SoIC |
| I694 | Graduate Thesis / Research | | 7 | † | IU-SoIC |
| I790 | Research Rotations | **[P] [R]** | 8 | n/a | IU-SoIC |
| H890 | Dissertation Research | **[P] [R]** | 5 | n/a | IU-SoIC |
| T519 | Human Factors of Interface Design | | 8 | †† | PU-PPI |

*Undergraduate Courses Taught*

| COURSE# | COURSE TITLE | CLASS | SIZE | TYPE | UNIVERSITY |
|---|---|---|---|---|---|
| CHS150 | Intro to Interprofessional Healthcare Seminar | | 32 | | UK (Sp 2022) |
| HHS 455 | UG Research Experience in the Health Sciences | [R] | 5 | | UK (Sp 2022) |
| HHS 454 | Research in Human Health Sciences | [R] | 64 | | UK (Fall 2022) |
| HHS 455 | UG Research Experience in the Health Sciences | [R] | 6 | | UK (Fall 2022) |
| PRD 560 | Product Design in Healthcare: *Design Thinking for Mobile Health Apps & Services* | [R] | 10 (Tentative) | | UK (Sp 2023) |
| I305 | Introduction to Research | [R] | 30 | †† | IU-SoIC |
| I300 | Human-Computer Interaction | | 30 | †† | IU-SoIC |
| I270 | Intro to HCI Principles and Practices | | 12 | †† | IU-SoIC |
| N499 | New Media Capstone Research Project | | 4 | n/a | IU-SoIC |
| N450 | Usability Principles for New Media Interfaces | | 18 | † | IU-SoIC |
| N420 | Multimedia Project Development | | 16 | †† | IU-SoIC |
| N100 | Introduction to Digital Media Principles | | 80 | †† | IU-SoIC |
| T115 | Introduction to Technical Illustration | | 37 | †† | PU-PPI |
| T203 | Technical Graphics | | 38 | †† | PU-PPI |
| T203 | Publishing I: Page Layout and Design | | 30 | †† | PU-PPI |
| T103 | Publishing II: Basic Techniques | | 35 | †† | PU-PPI |
| T111 | Design for Visualization and Communication | | 120 | †† | PU-PPI |
| T256 | Human Computer Interaction Theory and Design | | 15 | †† | PU-PPI |

*New Course Development* (Only)

| COURSE# | COURSE TITLE | | TYPE | UNIVERSITY |
|---|---|---|---|---|
| I275 | Introduction to HCI Theory | | †† | IU-SoIC |
| I480 | Experience Design and Evaluation of Ubiquitous Computing | | †† | IU-SoIC |
| I563 | Psychology of Human-Computer Interaction | [R] | †† | IU-SoIC |
| I542 | Human-Computer Interaction II | | †† | IU-SoIC |

## Advising and Mentoring

## Ph.D. Dissertation and/or Research Advising

| STUDENTS | DATES | DEPT /SCHOOL / RESEARCH AREA OR DISSERTATION |
|---|---|---|
| Maryam Zolnoori | 2015-17 | University of Wisconsin, Milwaukee, Health Informatics Exploring drug side-effects for depression in online healthcare communities: An examination of health and social media |
| Eric Vorm | 2015-16 | IU-SoIC / HCC Health Information Technology |
| Luiz Cavalcanti | 2015-16 | IU-SoIC / HCC Health Information Technology |
| Abdullah Almojaibel | 2014-16 | Health/Rehab Sci. |

| | | |
|---|---|---|
| | | TeleRespiratory healthcare for acceptance scale development |
| Masoud Hosseini | 2014-16 | Health Inform., SoIC<br>Consolidating CCDs from multiple data:<br>HL7 – Medical Record System sources |
| Yamini Karanam | 2013-16 | IU-SoIC / HCC<br>Health Information Technology |
| Preethi Srinivas | 2012-16 | IU-SoIC / HCC<br>Tools for Managing Notification<br>Interruptions in the ICU |
| Harry Tunnel | 2011-16 | IU-SoIC / HCC<br>Promoting common ground in a clinical setting:<br>A study of secondary users |
| Crystal Boston-Clay | 2011-16 | IU-SoIC / HCC / HI<br>Assessing health information tech. acceptance |
| Christine Newlon | 2010-16 | IU-SoIC / HCC<br>Building the mega-collaboration interface |
| Afarin Pirzadeh | 2010-12 | HCC/HCI/SoIC<br>Emotion Communication |
| Palilonis Jennifer | 2010-12 | HCC/HCI/SoIC<br>Electronic Reading Systems |
| Rohani Romisa | 2010-11 | HCC/HCI/SoIC<br>Aural Browsing |
| Robert Morse | 2008-10 | HCC/HCI/SoIC<br>Visual Analytics |

## MS Graduate Students — Thesis and/or Capstone Mentoring & Advising

| STUDENT | DATES | THESIS / PROJECT TITLE |
|---|---|---|

### UIC Health Informatics Students, with Project/Thesis Titles

| Student | Dates | Title |
|---|---|---|
| Kate Greenhill | 2016-18 | Visualizing Disease: An Aid to Physician-Family Communication |
| Titilola Akinyemi | 2019-Fall | Opportunities & Challenges of Patient-Wearable Technology in In/Out-Patient Care |
| Amanda Bagus | 2019-Fall | Mobile Health Applications for the Informal Caregiver: Impact on Elderly Treatment… |
| Gregory Briddick | 2019-Fall | Leveraging administrative data for identification of patients with possible Sepsis… |
| Ravin Ellis | 2019-Fall | Improving Patient Care Using EMR systems in community pharmacies |
| Chris Hannon | 2019-Fall | Alert Fatigue Related to Smart Infusion Pumps within the Inpatient Setting… |
| Haily Hopkins | 2019-Fall | How telemedicine reduces hospitalizations in COPD patients |
| Annam Itteera | 2019-Fall | The Impact of Mobile Health Monitoring on Diabetes Management |
| Lauren Krienert | 2019-Fall | Consumer Health Informatics Tools to Improve Health Literacy |
| Vladana Nikolic | 2019-Fall | Consumer Use of Mobile Healthcare Technologies for Cardiovascular Disease Mngmt… |
| Ambrish Sharma | 2019-Fall | Using Quick Response Code Technology for Patient ID for Appointment Check-In… |
| Kirsten Staley | 2019-Fall | Impacts of Anesthesia Biomedical Monitoring Devices on Patient Safety in an Integrated… |
| Jessica Watkin | 2019-Fall | Telemedicine and Big Data Analytics for better Chronic Disease Mngnt in the US |
| Will Weider | 2019-Fall | Patient Safety Event Management and Human Factors IT |

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**Indiana University / HCI/Informatics Students, with Project/Thesis Titles**

| | | |
|---|---|---|
| Bhuma Manjula | 2016-17 | Design of a Hypoglycemic Data Visualization mHealth System |
| Juan Campos | 2015-16 | Business Management System: A SalesForce App |
| Asa Blevins | " | " |
| Kelly Chan | " | " |
| Lindsay Kaser | " | " |
| Abdulaziz lderhami | 2015-16 | An Easter Seals System: An App for People w/ Disabilities |
| Dhanashree Bhat | " | " |
| Anwar Eaton | " | " |
| Alex Gountras | " | " |
| Lawrence Moore | 2015-16 | A Health-X App for Providers and Members |
| Soumya Dash | " | " |
| Natalie Hall | " | " |
| Dushyant Shrikhande | " | " |
| Gaurav Mallikarjuna | 2015-16 | An AV-Lab Adventure: A University Tour-Guide App |
| Shilpa Pachhapurkar | " | " |
| Erin Sheets | " | " |
| Manisha Yogan | " | " |
| Julie Elbin | 2015-16 | GiveHalvsies: A Crowd-Sourcing App |
| Deb Strzeszkowski | " | " |
| Kunal Bodke | " | " |
| Poorva Kulkarni | " | " |
| Xinxin He | 2014-15 | Notes Hub |
| Michael J. Frontz | 2014-15 | Art Fair Tracker-Application Management Sys. for Artists |
| Dennis Leonardo | 2014-15 | Patchwork: Collaborative Learning Hub |
| Daoyi Wang | 2014-15 | Food Solution-Food Justice |
| Ashleigh Young | 2014-15 | Better Days: Mental Health Application |
| Bunmi Akintomide | 2014-15 | Achat: Your Fashion Shopping Buddy |
| Yachung Cheng | 2014-15 | Help2Buy - A Sharing Economy Service |
| Meng Zhang | 2014-15 | Mappy - A collaborative navigation application |
| Ryan Ahmed | 2014-15 | HealthTrack – A Health Mobile App |
| Shivin Saxena | 2014-15 | CulAmi: Smart Kitchen UX using Touchless Interaction |
| Malvika Bansal | 2014-15 | Prox - Rapid Information Propagation using Beacons |
| Christopher Lee | 2008-09 | Mask Commun. of Afr.-Amer: Interpretive Interactions Online |
| Kevin Szerszen | 2007-08 | Testing the Validity of Skill Transference in Video Games |
| Diego Ramirez | 2007-09 | Paper-in-Screen Prototyping: An Agile Tech to Anticipate… |
| Amy Hu | 2007-08 | Prosodic Alignment in Human Computer Dialogues |
| Avery Nelson | 2006-09 | Info. Computerization: Investigating the Prod. Paradox |
| Keith Rodewald | 2003-04 | TrendVendor: An E-Commerce Web App Employing Data… |
| Tim Altom | 2004-06 | A Comparison of SPRT and Trad. Approaches for Determining… |
| Melynda Buher | 2004-06 | Toward a Theory for Online Instructional Design: Eval.… |

| | | |
|---|---|---|
| Maira Parveen | 2004-06 | Investigating Children's Online Learn. Environment |
| Chatree Campiranon | 2004-05 | Web-Based Management for Email Overload |
| Ming-Liang Liu | 2004-05 | Assessing User Performance of Online Digital Photography Library |
| Victor Tanner | 2005-06 | Enhancing Student Perform. for 3D Modeling Software Learners |
| Edgardo Luzcando | 2005-08 | Design of Software Develop. Environments for Software Designers |
| Stuart Ough | 2005-06 | Affect Index: Testing the Validity of Affective States in Music |
| Young-Joo Cha | 2005-07 | Identifying cross-cultural differences of emoticons in computer… |
| Christine Newlon | 2005-07 | Exploring Support for Mega-Team Computer-Mediated Collab. |
| Piyanaat Taksaphan | 2005-06 | Strains on Human Short-Term Memory and Info Orientation… |
| Kristina Ledford | 2005-09 | The Effect of Telepresence on Flow Exper. within Non-Gaming… |
| Dipankar Roychow | 2005-06 | Enhancing Web Browser Search Histories: Design & Analysis… |
| Heather Wiltse | 2006-07 | Everyday Use of Tech-Mediated Commun.: A Social Shaping Per… |
| Keith Beatty | 2006-07 | External cognition and problem solving: A comparison of desktop.. |
| Mark Tarrant | 2006-07 | Perceived Visual Aesthetics of emotionally Evocative Homepages |

## MS Graduate Students — General HCI Program Mentoring / Advising

| NAME | ROLE | PERIOD | GRAD. SEM. |
|---|---|---|---|
| Vinay Kashyap | Primary Advisor | 2011-13 | Spring |
| John Wheeler | Primary Advisor | 2010-11 | Spring |
| David Craske | Secondary Advisor | 2010-12 | Spring |
| Rupa Chatterji | Primary Advisor | 2010-12 | Spring |
| Christopher Lee | Primary Advisor | 2009-10 | Spring |
| Jon Duke | Secondary Advisor | 2009-10 | Spring |
| Joseph Coram | Secondary Advisor | 2009-10 | Fall |
| Dennis Mann | Secondary Advisor | 2009-11 | Spring |
| Diego F. Pulido | Secondary Advisor | 2009-10 | Spring |
| James Lyst | Secondary Advisor | 2009-12 | Spring |
| Kristen Ledford | Primary Advisor | 2009-12 | Sum. |
| Michael Downey | Primary Advisor | 2009-12 | Spring |
| Wade Mitchell | Secondary Advisor | 2009-12 | Spring |
| Edgardo Luzcando | Primary Advisor | 2008-09 | Spring |
| Howard Ho | Secondary Advisor | 2008-11 | Spring |
| Adam Burton | Secondary Advisor | 2008-10 | Spring |
| Avery Nelson | Primary Advisor | 2008-10 | Spring |
| Sandosh Vasudevan | Secondary Advisor | 2008-10 | Spring |
| Timothy Whalen | Secondary Advisor | 2008-10 | Fall |
| Kevin Szerszen | Secondary Advisor | 2007-10 | Fall |
| Christine Newlon | Secondary Advisor | 2006-08 | Spring |
| Heather Wiltse | Primary Advisor | 2006-07 | Spring |
| Keith Beatty | Primary Advisor | 2006-08 | Spring |
| Mark Tarrant | Primary Advisor | 2006-07 | Spring |
| Rob Elliott | Primary Advisor | 2006-08 | Spring |
| Stuart Ough | Secondary Advisor | 2006-07 | Spring |

| | | | |
|---|---|---|---|
| Dip Roychowdhury | Primary Advisor | 2005-06 | Spring |
| Maira Parveen | Primary Advisor | 2005-06 | Spring |
| Melynda Buher | Primary Advisor | 2005-07 | Spring |
| Mitchell Owen | Primary Advisor | 2005-07 | Spring |
| Piyanaat Taksaphan | Secondary Advisor | 2005-06 | Spring |
| Robert Green | Secondary Advisor | 2005-06 | Spring |
| Tim Altom | Primary Advisor | 2005-06 | Spring |
| Victor Tanner | Primary Advisor | 2005-06 | Spring |
| Young-Joo Cha | Primary Advisor | 2005-07 | Spring |
| Chatree Campiranon | Primary Advisor | 2004-05 | Spring |
| Ming-Liang Liu | Primary Advisor | 2004-05 | Spring |
| Tim Whalen | Secondary Advisor | 2004-07 | Spring |
| Keith Rodewald | Primary Advisor | 2003-04 | Spring |

## Master's and Ph.D. Students — Special Projects Advising, with Project/Thesis Titles

| STUDENT | DATES | THESIS/PROJECT TITLE | STATUS |
|---|---|---|---|
| Tim Altom | 2004-05 | Using 3D Landscapes to Navigate Filespaces | MS |
| Melynda Buher | 2004-05 | Using 3D Landscapes to Navigate Filespaces | MS |
| Michael Downey | 2004-05 | Using 3D Landscapes to Navigate Filespaces | MS |
| Edgardo Luzcando | 2004-05 | Psychometric System Design for Online Data Capture | MS |
| Saima Zaidi | 2005-06 | MedPliance: Medication Compliance Device Design | Ph.D. |
| Gary Cravens | 2005-06 | MedPliance: Medication Compliance Device Design | Ph.D. |

## Curricula and Program Development (*1998—Present*)

## Human-Computer Interaction Graduate Programs, IUSoIC, IUPUI

As founding Director of the HCI Program (2003—present, *except 2012-13*), programmatic work included curriculum development and a full plan of study for each of the HCI graduate and undergraduate programs, noted below:

- Master of Science       (36-cr.)  HCI Graduate Program       (2002—Present)
- Graduate Certificate     (15-cr.)  HCI Graduate Program       (2007—Present)
- Ph.D.                 (90-cr.)  HCI Track: Informatics & Computing  (2008—Present)
- Undergrad Certif.       (15-cr.)  HCI Undergraduate Program     (2010—Present)

## Media Arts and Science Programs, IUSoIC, IUPUI

As Director of MAS Programs (2007–2009), work included curriculum development:

- Bachelor of Science     (120-cr.) Media Arts and Science       (2001—2002)
- Graduate Certificate     (15-cr.)  MAS Graduate program       (2008—2009)
- Master of Science       (36-cr.)  MAS Graduate Program       (2008—2009)

**Research Team Mentoring**: 2013—2020 (*PhD, MS, and BS Students*)

| Student Name | Level | Discipline/Program | Core Contribution to Team | Citizens |
|---|---|---|---|---|
| *2018-Current* | | | | |
| Mary Bloodworth | PhD | Health Informatics | HCI, product design, data collection, pubs | USA |
| Hoang Minh | PhD | Computer Science | HCI, product development | Viet Nam |
| Ilyasse Belkacem | PhD | Computer Science | HCI, product develop./data collection, pubs | Algeria |
| Dani Bergey | MS | Biomed. Visualiz. | HCI, prototype design | USA |
| Alexandria Dirico | BS | Psychology/Honors | Usability testing, paper editing | USA |
| *2017-18* | | | | |
| Haleh Vatani | PhD | Health Informatics | Product Innovation and Testing | Canada |
| Emma Chai | MS | Biomed. Visualiz. | HCI, product development | China |
| Kate Greenhill | MS | Biomed. Visualiz. | Interaction Design and Prototype Develop | USA |
| Manjula Bhuma | MS | Health Informatics | Product design, data collection and Analysis | India |
| Alexandria Dirico | BS | Psychology/Honors | Usability testing, paper editing | USA |
| *2016-17* | | | | |
| Maryam Zolnoori | PhD | Health Informatics | Data collection, analysis, and pub creation | Iran |
| Kate Greenhill | MS | Biomed. Visualiz. | Interaction Design and Prototype Develop | USA |
| Manjula Bhuma | MS | Health Informatics | Product design, data collection and Analysis | India |
| *2015-16* | | | | |
| Yamini Karanam | PhD | HCI | HCI/prototyping, data collection/analysis, pubs | India |
| Preethi Srinavas | PhD | HCI | HCI/prototyping, data collection/analysis, pubs | India |
| Luiz Cavalcanti | PhD | HCI | HCI, data collection/analysis, pubs | Brazil |
| Deb Strzeszkowski | MS | HCI | HCI, usability testing, data collection/analysis | USA |
| Kate Ansah-Koi | MS | HCI | HCI, usability testing, data collection/analysis | Ghana |
| Thomas Andrew | MS | HCI | Usability testing, paper editing | USA |
| Nomaan Ahgharian | MS | HCI | HCI, product develop. usability, data collection | USA |
| Coltin Metzger | MS | Media Arts | Usability testing, paper editing | USA |
| Mikaylah Gross | BS | Business | Usability testing, data collection/analysis, pubs | USA |
| *2014-15* | | | | |
| Yamini Karanam | PhD | HCI | HCI/prototyping, data collection/analysis, pubs | India |
| Preethi Srinavas | PhD | HCI | HCI/prototyping, data collection/analysis, pubs | India |
| Luiz Cavalcanti | PhD | HCI | HCI, data collection/analysis, pubs | Brazil |
| Milka Trajkova | MS | HCI | HCI, usability testing, data collection/analysis | USA |
| Jamee Malan | MS | Nursing | Data collection/analysis | USA |
| Ryan Ahmed | MS | HCI | HCI, usability testing, data collection/analysis | India |
| Soumya Dash | MS | HCI | HCI, usability testing, data collection/analysis | India |
| *2013-14* | | | | |
| Yamini Karanam | PhD | HCI | HCI/prototyping, data collection/analysis, pubs | India |
| Preethi Srinavas | PhD | HCI | HCI/prototyping, data collection/analysis, pubs | India |
| Milka Trajkova | MS | HCI | HCI, usability testing, data collection/analysis | USA |
| Soumya Dash | MS | HCI | HCI, prototyping, usability testing | India |
| Olesia Koval | MS | HCI | HCI, usability testing, data collection/analysis | Russia |
| Rebecca Finch | MS | Media Arts | Usability testing, data collection/analysis | USA |

# SERVICE

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## University Service

### Departmental and College/School Committee Work

| YEARS | ROLE | COMMITTEE NAME / SCHOOL / UNIVERSITY |
|---|---|---|
| 2020—21 | Member | Dean's Executive Committee, College of Health Sciences, UK |
| 2020— | Member | Institute of Biomedical Informatics Steering Committee, UK |
| 2016—19 | Member | PhD Oversight Committee, UIC |
| 2016—19 | Member | Academic Affairs Committee, UIC |
| 2015—19 | Chair | Program Director's Committee, UIC |
| 2015—19 | Member | Dean's Department Head Committee, UIC |
| 2015—16 | Chair | Colloquia Committee, SoIC, IUPUI |
| 2015—16 | Chair | HCC Faculty Search and Screen Committee, SoIC, IUPUI |
| 2014—16 | Member | UG Informatics Curriculum committee, SoIC, IUPUI |
| 2014—16 | Member | HCC Faculty Search and Screen Committee, SoIC, IUPUI |
| 2013—16 | Member | HCC Faculty Search and Screen Committee, SoIC, IUPUI |
| 2014—16 | Member | Council of Undergraduate Committee–SoIC Curric. Develop. |
| 2009—13 | Chair | Council of Undergraduate Committee–SoIC Curric. Develop. |
| 2009—13 | Chair | Council of Undergraduate Committee – Exec Committee Chair |
| 2008—09 | Chair | Media Arts New Faculty Search and Screen Committee, SOIC, IUPUI |
| 2008—09 | Chair | HCI New Faculty Search and Screen Committee, SOIC, IUPUI |
| 2008—09 | Member | School Website Re—Design and Deploy Committee, SOIC, IUPUI |
| 2008—09 | Member | Graduate Programs Shaping Committee, SOIC, IUPUI |
| 2008—09 | Chair | Media Arts and Science Advisory Board, SOIC, IUPUI |
| 2007—09 | Chair | Graduate Curriculum Comm., Media Arts and Science, SoIC, IUPUI |
| 2007—09 | Chair | Graduate School Strategic Planning  Comm., SOIC, IUPUI / IUB |
| 2007—09 | Chair | Undergrad. Curriculum Comm., Media Arts and Science, SoIC, IUPUI |
| 2007—09 | Chair | Media Arts and Science Advisory Board, SOIC, IUPUI |
| 2007—08 | Chair | Promotion and Tenure Committee, SOIC, IUPUI |
| 2006—07 | Member | New Media Curriculum Assessment Committee, IU SOIC, IUPUI |
| 2003—04 | Member | Faculty Search Committee, IU SOIC, IUPUI |
| 2003—05 | Member | Graduate Program Committee, IU SOIC, IUPUI |
| 2002—03 | Member | Curriculum Committee, Indiana University (IU) SOIC, IUPUI |
| 2002—03 | Member | Faculty Search Committee, IU SOIC, IUPUI |
| 2002—03 | Member | Library Review Committee, IU SOIC, IUPUI |
| 2002—03 | Member | Informatics Online Development Committee, IU SOIC, IUPUI |
| 2002—03 | Member | Graduate Program Committee, IU SOIC, IUPUI |
| 2001—02 | Member | Curriculum Committee, Chair, New Media, IU SOIC, IUPUI |
| 2001—02 | Member | Faculty Search Committee, New Media, IU SOIC, IUPUI |
| 2001—02 | Member | Technology Committee, New Media, IU SOIC, IUPUI |
| 2001—02 | Member | Undergraduate Program Committee, SOIC, IU |
| 2000—01 | Member | Science and Media Committee, School of Food Sciences, Purdue U. |
| 1998—01 | Member | Marketing and Com Comm, Dept. of Computer Graphics, Purdue U. |
| 1998—01 | Member | Faculty Search Committee, Dept. of Computer Graphics, Purdue U. |

1998—01 Member   School of Technology International Programs Committee, Purdue U.

**University Committees and Boards**
2015—16   University Budgetary Affairs, IUPUI
2015—16   University Faculty Affairs, IUPUI
2008—09   Plater Senior Advisory Board (Focus: RISE Imitative)
2008—13   Solution Center Executive Board – IUPUI – Indianapolis Bus. Connection
2007—09   Executive Board Member (founding member), TASI –Trans. Active Safety Institute
        School of Engineering
2007—08   Graduate Affairs Committee, IUPUI
2004—05   University-Wide Technology Committee, IUPUI
2004—05   Fulbright Representative, IUPUI Campus
2004—    Grant Proposal Review Committee, IUPUI Office for Professional Dev.
2003—04   IUPUI Internal Grants Proposal Review Committee, Chair, IUPUI


**University Administrative / Leadership Councils and Committees**
2012—14   Vice Chancellor's Leadership Strategic Team for the American Council on Education's
        (ACE); Internationalization Laboratory, Sub-Committee on Curriculum
        Internationalization
2008—13   Chancellor's Academic Dean's Council
2008—13   Vice Chancellor's Academic Dean's Council
2008—13   Informatics and Computing Dean's Leadership Council
2008—13   Information Technology Governance and Service Committee

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**Professional Service**

**Conference Administrative Service**

2019-20   Human Factors in Health, 2020 HFES Symposium, Toronto, Canada, **Co-Chair**
        Track: Mobile Health
        Co-Chair: Plinio Morita, Ph.D., School of Public Health & Health Systems, U of Waterloo

2018    Digital Transformation & Global Society 2018 Conf., St. Petersburg, Russia, **Co-Chair**
        Session: Advances in Cyberpsychology
        Co-Chair: Alexander Voiskounsky, Moscow State University, College of Psychology

2011    HCI International Conference 2011, Orlando, FL, **Co-Chair**
        Session Title: Communication Issues and the User Experience: Branding, Content Design
        and Semiotics;
        Thematic Area: Design, User Experience, and Usability;
        Session Co-Chairs: Anthony Faiola, Indiana University SoIC, HCI Program; Davide
        Bolchini, Indiana University School of SoIC, HCI Program

2011    HCI International Conference 2011, Orlando, FL, **Co-Chair**
        Session Title: Biomedical and Health Visualization HCI Design;
        Thematic Area: Ergonomics and Health Aspects of Work with Computers;
        Session Co-Chairs: Anthony Faiola, Indiana University SoIC, HCI Program; Taowei David
        Wang, University of Maryland, Department of Computer Science, HCI Lab

2011    HCI International Conference 2011, Orlando, FL, **Co-Chair**
        Session Title:  Social Spaces for Virtual Gameplay and Learning – New Inquiries;

Thematic Area: Online Communities and Social Computing;
Session Co-Chairs: Anthony Faiola, Indiana University SoIC, HCI Program; Alexander Voiskounsky, Moscow State University, Department of Psychology, M.IN.D. Lab

| | |
|---|---|
| 2009 | HCI International Conference 2009, San Diego, CA, **Co-Chair**<br>Session Title: Usability for Bio and Health Informatics;<br>Thematic Area: Ergonomics and Health Aspects of Work with Computers;<br>Session Co-Chairs: Anthony Faiola, Indiana University SoIC, HCI Program; Davide Bolchini, Indiana University SoIC, HCI Program |
| 2009 | HCI International Conference 2009, San Diego, CA, **Co-Chair**<br>Session Title: Online Gaming and Social Computing;<br>Thematic Area: Online Communities and Social Computing;<br>Session Co-Chairs: Anthony Faiola, Indiana University SoIC, HCI Program; Alexander Voiskounsky, Moscow State University, Department of Psychology, M.IN.D. Lab |
| 2009 | 13th Inter. Conf. on Information Visualization, Barcelona, Spain, **Symposium Chair**<br>Symposium Title: Visualization and Interaction Design;<br>Session Co-Chairs: Anthony Faiola, Indiana University SoIC, Indianapolis; Dennis Groth, Indiana University SoIC, Bloomington |
| 2008 | 14th Inter. Conf. on Information Visualization, London, UK, **Symposium Chair**<br>Symposium Title: Visualization and Interaction Design;<br>Session Co-Chairs: Anthony Faiola, Indiana University SoIC, Indianapolis; Dennis Groth, Indiana University SoIC, Bloomington, IN |
| 2007 | 13th Inter. Conf. on Information Visualization, London, UK, **Symposium Chair**<br>Human-Computer Interaction Symposium;<br>Symposium Title: Visualization and Interaction Design;<br>Session Co-Chairs: Anthony Faiola, Indiana University SoIC, Indianapolis; Dennis Groth, Indiana University SoIC, Bloomington |
| 2006 | CATac'06 Cultural Attitudes Towards Tech/Comm., Tartu, Estonia, **Session Chair**<br>Session Title: Politics, Media, and Technologies;<br>Session Chair: Anthony Faiola, Indiana University SoIC, Indianapolis |
| 2006 | 12th Inter. Conf. on Information Visualization, London, UK, **Symposium Chair**<br>Human-Computer Interaction Symposium;<br>Symposium Title: Visualization and Interaction Design;<br>Session Co-C hairs: Anthony Faiola, Indiana University SoIC, Indianapolis; Dennis Groth, Indiana University SoIC, Bloomington |
| 2005 | 11th Inter. Conf. on Information Visualization, London, UK, **Symposium Chair**<br>Symposium Title: Visualization and Interaction Design;<br>Session Co-Chairs: Anthony Faiola, Indiana University SoIC, Indianapolis; Dennis Groth, Indiana University SoIC, Bloomington |
| 2005 | HCI International Conference 2005, Las Vegas, Nevada, **Co-Chair**<br>Session Title: HCI of Information Visualization: Research and Education in 2/3-Dimensional Domains;<br>Thematic Area: Human-Computer Interaction;<br>Session Chair: Anthony Faiola, Indiana University SoIC, HCI Program |
| 2005 | HCI International Conference 2005, Las Vegas, Nevada, **Co-Chair** |

Session Title: Interaction Design Education and Research: Current and Future Trends;
Thematic Area: Human-Computer Interaction;
Session Chair: Anthony Faiola, Indiana University SoIC, HCI Program

2004 Humanizing Technology Colloquium, New Directions in the Humanities,
Tuscany, Italy, **Session Chair**
Colloquium Title: Human-Computer Interaction,
Communication, and Co-Existence: A Blueprint for Humanizing Technology, Anthony
Faiola, Indiana University SoIC, HCI Program

2003 Human-Computer Interaction International Conference 2003,
Crete, Greece, **Session Chair**
Session Title: HCI Education—New Challenges, Shifts, and Issues;
Thematic Area: Human-Computer Interaction;
Session Chair: Anthony Faiola, Indiana University SoIC, HCI Program

## Conference Program Committee

2011 SeGAH 2011: 1st International Conference on Serious Games and Applications for Health.

2011 DUXU 2011: Design, User Experience, and Usability, HCI International Conference, Orlando, FL.

2009 HCI Symposium, 13th Annual International Conference on Information Visualization, Barcelona, Spain.

2009 Active Safety Symposium, Program Member (Sponsor: TASI - Transportation Active Safety Institute and Department of Electrical Engineering, School of Engineering and Technology, IUPUI), Designated IEEE Conference.

2008 HCI Symposium, 12th Annual International Conference on Information Visualization, Zurich, Switzerland.

2008 LCEA'09 Symposium - Lansdown Centre for Electronic Arts (Program Committee Member), Middlesex University, Middlesex, England.

2008-9 IDC 2009 - The 8th International Conference on Interaction Design for Children - In cooperation with ACM-SIGCHI (Program Committee Member), Polytechnic Institute of Milano, Italy.

2007 HCI Symposium, 11th Annual International Conference on Information Visualization, Zurich, Switzerland.

2006 HCI Symposium, 10th Annual International Conference on Information Visualization, London, England.

2005 HCI Symposium, 9th Annual International Conference on Information Visualization, London, England.

2004 HCI Symposium, 8th Annual International Conference on Information Visualization, London, England.

2004 ACM SGICHI, Selection Committee, SIGCHI Distinguished Speakers List.

## Conference Peer Reviewer (*Editor of some session papers*)

2016 AMIA 2016: American Medical Informatics Association Symposium, *Distinguished Reviewer Award*

2015 AMIA 2015: American Medical Informatics Association Symposium

2013    ACM CHI 2013: Computer Human Interaction: International Conference: One of a CHInd

2011    SeGAH 2011: 1st International Conference on Serious Games and Applications for Health.

2011    HCI International Conference 2011, Orlando, FL. Communication Issues and the User Experience: Branding, Content Design and Semiotics (Thematic Area: Design, User Experience, and Usability)

2011    HCI International Conference 2011, Orlando, FL. Biomedical and Health Visualization HCI Design (Thematic Area: Ergonomics and Health Aspects of Work with Computers)

2011    HCI International Conference 2011, Orlando, FL. Social Spaces for Virtual Gameplay and Learning – New Inquiries (Thematic Area: Online Communities and Social Computing)

2010    4th International Conference on Pervasive Computing Technologies for Healthcare 2010, Munich, Germany, March 2010.

2009    HCI International Conference 2009, San Diego, CA. Usability for Bio and Health Informatics (Thematic Area: Ergonomics and Health Aspects of Work with Computers)

2009    HCI International Conference 2009, San Diego, CA. Online Gaming and Social Computing (Thematic Area: Online Communities and Social Computing)

2009    HCI Symposium (Co-Editor and Reviewer), 13th Annual International Conference on Information Visualization, Barcelona, Spain.

2009    LCEA'09 Symposium (Lansdown Centre for Electronic Arts) (Reviewer), Middlesex University, Middlesex, England

2008    HCI Symposium (Co-Editor and Reviewer), 12th Annual International Conference on Information Visualization, Zurich, Switzerland.

2007    Sixth Annual (ACM SIGCHI) Pre-ICIS HCI/MIS Workshop, Association for Information Systems, Montreal, Canada, Program Committee Member and Paper reviewer.

2007    HCI International Conference 2007, Beijing, China. Conference HCI Research in Culture-Driven Mediated Communication, Cognition and Recreation.

2007    HCI Symposium (Co-Editor and Reviewer), 11th Annual International Conference on Information Visualization, Zurich, Switzerland.

2007    HCI International Conference 2007, Beijing, China. Conference HCI Design Educational Research: Teaching Theories, Models, and Learning Outcomes.

2007    Human-Computer Interaction International Conference 2007, Beijing, China. Conference Human-Information Interaction Theories, Models, and Design Strategies.

2006    HCI Track of the 14th European Conference on Information Systems (ECIS). (Reviewer), Göteborg, Sweden. Organized by the IT University of Göteborg.

2006    Fifth Annual (ACM SIGCHI) Pre-ICIS HCI/MIS Workshop, Association for Information Systems, Milwaukee, Wisconsin, Program Committee Member.

2006    HCI Symposium (Co-Editor and Reviewer), 10th Annual International Conference on Information Visualization, London, England. Symposium Title: Visualization and Interaction Design.

2005    Fourth Annual (ACM SIGCHI) Pre-ICIS HCI/MIS Workshop, Association for Information Systems, Las Vegas, Program Committee Member.

2005    HCI Symposium (Editor and Reviewer), 9th Annual International Conference on Information Visualization, London, England.

2004    Third Annual (ACM SIGCHI) Pre-ICIS HCI/MIS Workshop, Association for Information Systems, Washington, D.C., Program Committee Member and Paper reviewer.

2004    HCI International Conference 2005, Las Vegas, Nevada. The Human-Computer Interaction of Information Visualization.

2004    HCI International Conference 2005, Las Vegas, Nevada. Interaction Design Education and Research.

2004    HCI Symposium (Editor and Reviewer), 8th Annual International Conference on Information Visualization, London, England.

2004    Humanizing Technology Colloquium, Tuscany, Italy. 2PndP International Conference on New Directions in the Humanities, Colloquium Title: Human-Computer Interaction, Communication, and Co-Existence: A Blueprint for Humanizing Technology.

2003    Space, Spatiality, and Technology Conference, Edinburgh, Scotland, Napier University School of Computing.

2003    HCI International '03, Parallel Session, HCI Education. Chief reviewer and editor of session papers.

2003    Second Annual (ACM SIGCHI) Pre-ICIS HCI/MIS Workshop, Association for Information Systems, Program Committee Member and Paper reviewer.

**Journal and Book Peer Reviewer**

2016—Present    Journal of Applied Clinical Informatics
2016—Present    Journal of Biomedical Informatics
2015—Present    Behavior Research Methods
2011—Present    MIT Press
2009—Present    Human-Computer Interaction Journal (Taylor and Francis Publishing)
2006—Present    Interacting with Computers (Elsevier Publishing)
2003—Present    Behavior and Information Technology (Taylor and Francis Publishing)
2003—Present    Journal of Management Information Systems (M.E. Sharpe Publishing)

**Special Service in the Graphic Arts and New Media**

2000    Graph Expo, Digital Printing Seminars and Workshops, Chicago
2000    Graphic Arts Edu. Seminars, Printing e-Commerce/Internet, Chicago
2000    Alfa Design & Printing, Review of current work, Moscow Russia
2000    Lersta Animation, Review of current work, St. Petersburg, Russia
2000    Amos PrePress House, Review of current work, St. Petersburg, Russia
1999    Graph Expo, Digital Printing Seminars and Workshops, Chicago
1998    Graph Expo, Digital Printing Seminars and Workshops, Chicago
1998    GATF/GAERF Teacher Conference, Chicago Tech. & Graphic Arts Issues
1998    Printers Industry of Am (PIA), Prof. Workshop on Standards Evaluation, Chicago

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**WORKING GROUPS / RESEARCH BOARDS**

2019    Agency for Healthcare Research and Quality, Dept. of Health and Human Services, Reviewer
2015-16    Intensive Care Informatics, American Medical Informatics Association (AMIA)
2014-16    Fulbright Scholarship Review Board
2009-16    Transportation Active Safety Institute, Executive Board Member, Purdue University, Dept/ of Electrical Engineering, School of Engineering, IUPUI, http://www.tasi.iupui.edu/

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**FULBRIGHT SCHOLARSHIPS**

2003    **Senior Specialist Program**: Moscow State University of the Printing Arts.

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Series—*Communication and Design of eBook Technologies*. Moscow, Russia

2002 **Senior Specialist Program**: Moscow State University of the Printing Arts,
Series—*Communication and Design of Online Publishing Technologies*. Moscow, Russia

1999 **U.S. Scholars Program**: St. Petersburg State University of Information
Technology. Series—*Communication—Media Arts Design and Usability*. St Petersburg, Russia

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## AWARDS

2013 Dedicated Service Award—*as* Executive Associate Dean, Indiana University, SoIC
2004 Who's Who among America's Teachers, Nominated Honor
2003 IU Board of Trustees Excellence in Teaching Award, Indianapolis, IN
2001 University of New York Alumni Honor Roll, SUNY Albany, NY
1984 Printing Industry of America Design Award
1984 PRINT Magazine Annual Design Award, New York
1984 DESI Graphic Design Award, New York
1984 National Composition Association—Design Award, New York
1983 Chicago Book Clinic, 35th Annual Design Award, Chicago
1983 Columbus Society of Communicating Arts, Design Award, Columbus, OH
1983 DESI Graphic Design Award, New York
1983 Printing Industry of America Design Award
1983 PRINT Magazine Annual Design Award, New York
1983 Phi Beta Kappa Nominee: Ohio State University, Columbus, OH
1979 Ford Foundation Fine Arts Grant, The Ohio State University, Columbus, OH

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## PROFESSIONAL ORGANIZATIONS (*All Organizations: Active & Past*)

*Active*

| | | |
|---|---|---|
| 2017— | Center for Health Design | CHD |
| 2014— | American Medical Informatics Association | AMIA |

*Past*

| | | |
|---|---|---|
| 2017—20 | American Society for Healthcare Engineering (*American Hospital Association*) | ASHE |
| 2017—20 | Society for Participatory Medicine | SPM |
| 2016—20 | American Congress of Rehabilitation Medicine | ACRM |
| 2006—10 | American Educational Research Association | AERA |
| 2002—05 | Industrial Designers Society of America | IDSA |
| 2001—05 | Usability Professionals Association | UPA |
| 2001—17 | Association of Computing Machinery—Special Interest Group | ACM |
| 1999—10 | Fulbright Association | Fellow |

# CREATIVE WORK

## *Fine Arts and Design*

**PROFESSIONAL POSITIONS** (Visual Communication/Design/Advertising)[1]

| | |
|---|---|
| 1991-98 | Assist. Director, LME Publications & Humanitarian Group, Moscow and St. Petersburg, Russia |
| 1986-91 | Art Director, Crown Communications, Design and Diversified Media, Columbus, OH |
| 1985-86 | Art Director, Frigidaire—WhiteWestinghouse, Corporate Advertising Division, Columbus, OH |
| 1982-85 | Senior Cover Designer, Merrill Publishing (A Bell+Howell Co.), Columbus, OH |
| 1980-82 | Design Coordinator, Bohem Print and Publishing Corporation, Columbus, OH |
| 1979-80 | Advertising Coordinator, Shelly Berman Communicators Advertising & PR, Columbus, OH |

## TEACHING

Fine Arts & Design Courses Taught[2]

| COURSE# | COURSE TITLE | PROGRAM | UNIVERSITY | DATE |
|---|---|---|---|---|
| ID 258 | Basics Typography† | Industrial Design/VC | OSU | 1983-84 |
| ID 350 | Basic Visual Comm. Design Practices† | Industrial Design/VC | OSU | 1983-84 |
| Art 200 | Concepts and Issues in Art† | Fine Arts | OSU | 1977-79 |
| Art 205 | Beginning Drawing†† | Fine Arts | OSU | 1977-79 |
| Art 479 | Beginning Lithography† | Fine Arts | OSU | 1977-79 |
| Art 240 | Contemporary Etching†† | Fine Arts | SUNY | 1976-77 |
| Art 230 | Introduction to Painting†† | Fine Arts | SUNY | 1976-77 |
| Art 110 | Two-Dimensional Design† | Fine Arts | SUNY | 1976-77 |
| Art 335 | Color Theory†† | Fine Arts | SUNY | 1976-77 |

† Co-Taught as Graduate Teaching Associate  OSU The Ohio State University
†† Solo-Taught as Graduate Teaching Associate  SUNY State University of New York at Albany

## Fine Arts and Design Assistantships / Apprenticeships

| | |
|---|---|
| 1982-83 | Department of Design, The Ohio State University, *Graduate Teaching Associate* (Graduate) Primary Advisors: Charles Wallschlaeger, Joseph Koncelik, and Reinhart Butter |
| 1977-78 | Dept. of Fine Arts (Printmaking), The Ohio State University (Graduate) Studied under Charles Massey, Jr., Work in the Smithsonian Museum |
| 1976-77 | Dept. of Fine Arts (Printmaking), SUNY Albany (Graduate) Studied under Thom O'Connor (Master Printer from the *Tamarind Institute*) http://www.oxfordgallery.com/Contemporary/oconnor.html Work in the Smithsonian Museum |
| 1976 | Study in Urbino, Italy (Graduate) Academy of Fine Arts (*Accademia di Belle Arti di Urbino*), Urbino, Italy |

[1] Details about each position, provided on request.
[2] For courses taught in HCI, interface design, and new media, see main CV

Stamperia Edera, Urbino, Italy, With printers: <u>Gioacchino De Vanna and Paolo Fiaccarini</u>.

1972-75    Dept. of Fine Arts (Printmaking), SUNY New Paltz (Undergraduate)
Studied under <u>Murray Zimiles</u>, Author of: *<u>The Technique of Fine Art Lithography</u>*
Studied under <u>Ben Wigfall</u>, <u>Celebrated African-American Artist</u>

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## RESEARCH (*Creative*)

### Juried Art Exhibitions

| | | |
|---|---|---|
| 2022 | Indianapolis Arts Center | Group Exhibition, *Painting,* Indianapolis, IN |
| 2013 | Linus Galleries | Strength Exhibition, *Photo-Lithography,* Pasadena, CA |
| 2011 | University Museum | Alumni Exhibition, *Lithograph*, Albany, NY |
| 2007 | Austin State Art Gallery | National Prize Exhibition, *Lithograph*, Nacogdoches, TX |
| 2006 | Schultz Gallery | National Prize Exhibition, *Lithograph*, Cambridge, MA |
| 2005 | Ben Shahn Gallery | Juried Printmaking Exhibition, *Lithograph*, Wayne, NJ |
| 2004 | Masur Museum | Juried Competition, *Lithograph*, Monroe, LA |
| 2003 | ArtCentre Plano Gallery | National Juried Exhibition, *Lithograph*, Plano, TX |
| 2003 | Phillips Gallery | Invitational Print Exhibition, *Lithograph*, Sanibel, FL |
| 1980 | Finger Lakes CC Gallery | Two-Person Exhibition, *Installations*, Canandaigua, NY |
| 1979 | Ohio State Art Gallery | Ohio Five Exhibition, *Sculpture Paintings,* Columbus, OH |
| 1977 | Mt Holyoke Art Museum | Annual Print Exhibition, *Lithograph*, Mount Holyoke, MA |

### Performance Art (*Music Composition*)

1979  *Eight Days of Creation*, Performance Art, Work for Soprano Saxophone and Violin. Performed in the Atrium of The Ohio State University, Sullivant Hall. Columbus, OH.

1978  *Human Triptych: Spirit, Soul, and Body*, Performance Art, For 12 Dancers, Quintet, and Soprano Vocalist. Performed in The Ohio State University, Theatre-in-the-Round. Columbus, OH.

### Design Awards

1984   Printing Industry of America Design Award
1984   PRINT Magazine Annual Design Award, New York
1984   DESI Graphic Design Award, New York
1984   National Composition Association—Design Award, New York
1983   Chicago Book Clinic, 35th Annual Design Award, Chicago
1983   Columbus Society of Communicating Arts, Design Award, Columbus, OH
1983   DESI Graphic Design Award, New York
1983   Printing Industry of America Design Award
1983   PRINT Magazine Annual Design Award, New York

### Refereed Cover Designs Reproduced—*Cover Designs Published in National Design Journals*

1985   Personality. *Printing Industry of America Annual*.
1984   The earth. *PRINT, Print's Regional Design Annual, 38(4), p. 166.*
1984   Advertising. *Printing Industry of America Annual*.
1984   Management. *Printing Industry of America Annual*.
1983   Physical geology. *PRINT, Print's Regional Design Annual, 37(4), p. 157*
1983   Biology. *Communication Society of Columbus Annual*.

# APPENDIX A

## ADMINISTRATIVE EXPERIENCE

### ASSOCIATE DEAN FOR RESEARCH | 2020–2021
College of Health Sciences (CHS)
University of Kentucky

**Descriptions:** As the Associate Dean for Research and Scholarship (ADR) in the College of Health Sciences, Dr. Faiola was responsible for fostering research productivity and aiding in the strategic direction of the college's research mission. His primary administrative duties included the fiscal oversight of an annual $500K office budget, with 2019-20 (FY) external funding at ~$7,254,788. Other duties include advancing and overseeing the college's research portfolio and pre/post-award infrastructure, increasing the college's research and scholarly contributions, growing extramural research funding, including seeking new funding sources, promoting the college's research accomplishments both internally and externally, and overseeing the college's research budget, grant management, tracking, and reporting requirements.

Dr. Faiola explored ways to create new synergies for CHS by advancing cross-disciplinary collaboration across the UK campus and beyond. Particularly, he has embraced the application of new health information and data science technologies that can have a profound impact on increasing innovative forms of patient-centered care.

**ADR's Staff** (*Reporting Lines*):
    **Director of Research Operations**
        College Grants Officer
        Financial Analyst
        Senior Research Associate

**Accomplishment Highlights**
1. Advocated for CHS at university meetings, while building wide campus alliances to increase inter/multidisciplinary partnerships.
2. Worked with a cohort of CHS faculty inventors on the commercialization of their mobile health technologies, including Intellectual Property management in coordination with the Office of Technology Commercialization.
3. Formed the Health Innovation Team (HIT) CHS faculty group that has as its mission to increase the college's scholarship footprint through innovation in health and wellness and the translation of basic scientific and clinical research into commercially viable products.
4. Led the ongoing professional development and mentoring of faculty in the areas of research and scholarship of teaching, as well as developing their research agendas, identifying resources, including funding opportunities, and identifying collaborators.
5. Provided guidance in proposal writing, development, and review of grant proposals.
6. Managed the college's colloquia speaker series of researchers.
7. Coordinated with department chairs to provide the most effective and efficient means of mentoring research faculty.
8. Appointed and chaired the college's Research Advisory Committee.

**DEPARTMENT HEAD | 2016–2020**
**Department of Biomedical and Health Information Sciences (BHIS)**
**College of Applied Health Sciences**
**University of Illinois at Chicago**

**Descriptions:** Administrative duties include the fiscal oversight of an annual $6M budget, covering the support of 26 full-time faculty (tenured/tenure-track/clinical), 65 adjunct faculty, and 5 staff—including supervision of all research, education, and service efforts for BHIS. Responsibilities also include advancing the educational and research rigor of the department's graduate (MS/Ph.D.), undergraduate, and certificate programs—approximately 1,000 students in total.

Reporting to the dean of the College of the Applied Health Sciences, outward-facing responsibilities include the development of long-term strategic planning, budgetary projections, and (RCM) revenue generation in the areas of enrollment growth, as well as retention and graduation management for face to face and online programs.

Dr. Faiola's collaborative efforts include both inter-college and university-wide relationship-building, and extensive work in fostering interdisciplinary synergies in research with the Colleges of Medicine, Nursing, Public Health, Pharmacy, Engineering (primarily Bioengineering and Computer Science), and Liberal Arts. Other key responsibilities include on-going partnership-building with biomedical and health informatics research and teaching (PhD Co-Teaching Program) with Northwestern University and the University of Chicago.

**Programs under Dr. Faiola's direction included:**
- **MS in Health Informatics** (*Ranked 3rd*): One of the largest online HI master's program in the U.S., with (at its peak) over 600 students.
- **MS in Biomedical Visualization** (*Ranked 2nd to Johns Hopkins*): Founded in 1921, and receiving more than 30–40 student awards per year in the digital medical arts.
- **BS in Health Information Management** (*Ranked 5TH*): The second-oldest HIM program in the U.S., taught both online and on campus.
- **Ph.D. in Biomedical and Health Informatics**: Now in its 6th year, with anticipated enrollment growth of two to three funded students per year.

**Head's Executive Team** (*Reporting Lines to the Head*):
    **Associate Department Head**
    **Program Directors** (* = Also Directed by Dr. Faiola)
- Director of Health Informatics (Online)
- Director of Health Information Management (Campus/Online)
- Director of Ph.D. Biomedical and Health Informatics (Campus)*
- Director of Biomedical Visualization (Campus)

    **Director of Graduate Programs**
    **Financial Officer**

**Accomplishment Highlights**
- Refereed publication production increased 61.7%—*from 47 to 76 publications, from 12 faculty members*.
- External funding increased by 86.5%—*from $5.9M to $11M, from seven faculty members*.
- Initiated and led a $450K licensing contract for our HIM program with the King Saud Bin Abdulaziz University for Health Sciences, College of Public Health and Health Informatics, Riyadh, Saudi Arabia.
- Initiated an extensive review of P&T guideline norms and expectations for the department.
- Led diversity and inclusion efforts, hiring four women tenure-track and clinical professors from 2016–2018.
- Co-led the development and launch of new specialization areas in online health informatics:
  - Health Data Science—MS Health Informatics Track      *Start*: Spring 2018
  - Undergraduate Minor in Biomedical Visualization—BS Degree      *Start*: Spring 2019
  - Five new certificates as part of the HI MS program      *Start*: Fall 2019
- Led the expansion of marketing for the health informatics program abroad in five countries, in a coordinated effort with the Pearson Education International marketing group.

**EXECUTIVE ASSOCIATE DEAN (EAD) | 2008–2013**
**Indiana University—School of Informatics and Computing**
**Indiana University—Purdue University, Indianapolis (IUPUI)**

**Descriptions:** Executive associate dean (EAD) and chief executive and academic officer for the School of Informatics and Computing on the Indianapolis Campus, reporting to the provost (IUPUI) and dean of SoIC (Bloomington, IN). Administrative duties included fiscal oversight of a $9.6M budget and programs that generated over 8,000 credit hours per year. Work included day-to-day oversight of all school-wide operations, which involved just under 1,000 undergraduate and graduate students (BS/MS/Ph.D.). The school was composed of 37 tenured/tenure-track and full-time lecturers and research associates.

EAD duties included the management of all associate and assistant deans, staff directors, and program directors in the areas of health informatics, bioinformatics, health information administration, human-computer interaction, media arts and science, and informatics (see list below). (The inclusion of the Department of Library and Information Science transpired at the conclusion of my leadership as EAD, in 2013.)

EAD responsibilities also included oversight of all academic and faculty affairs, as well as SoIC's educational and research mission, strategic planning, budgetary projections, and RCM revenue generation in the areas of undergraduate and graduate enrollment, as well as student outreach, marketing, and retention. Other responsibilities included advancing diversity and inclusion, international education, hiring and retaining high-quality research faculty with strong potential to obtain funding, creation of research and teaching labs, fundraising, and building cross-campus and community partnerships.

Furthermore, EAD duties included extensive work to foster interdisciplinary research synergies between the school's programs—e.g., health informatics in collaboration with human-centered computing and media arts and science—as well as across multiple campus units. For example, campus-wide collaboration was extensive, including the development of ongoing partnerships with the Schools of Medicine, Nursing, Art and Design, Science (computer science), and Engineering.

Outward-facing management included communication and reporting to campus administration regarding the school's mission, and the annual progress and long-term planning of the school's enrollment, graduation, research, and budgetary projections. Reporting lines to the EAD include:

**Dean's Executive Team** (*Reporting Lines to the EAD*):
  **Associate/Assistant Deans:**
    Associate Dean for Research and Graduate Programs
    Associate Dean of Administration and Planning
    Associate Dean for Faculty Affairs
    Assistant Dean for Student Affairs
  **Program Directors:** (* = Also Directed by Dr. Faiola)
    Director of Health Informatics        Degrees: Ph.D. & MS
    Director of Bioinformatics         Degrees: Ph.D. & MS
    Director of Human-Computer Interaction*  Degrees: Ph.D., MS, Grad & UG Certif.
    Director of Media Arts and Science     Degrees: MS & BS
    Director of Health Information Admin.    Degrees: BS & UG Certif.
    Director of Informatics*            Degrees: BS & UG Certif.
  **Administrative Leadership:**
    Director of Communications and Marketing
    Director of Fiscal and Administrative Affairs
    Director of Technology and Space Management
    Director of Advising and Career Services
    Director of Human Resources
    Manager of Events and Recruitment

**Accomplishments:** See the Appendix B for details and an extensive list of accomplishments.

**FOUNDING DIRECTOR | 2002–2014**
**Human-Computer Interaction (HCI) Program**
Indiana University—School of Informatics and Computing

**Descriptions:** As Founding Director of the Human-Computer Pnteraction Program, Dr. Faiola oversaw all program and course development, faculty and student affairs, enrollment growth and retention, and the general management of all HCI programs, i.e., MS, Ph.D., UG, and graduate certificates.

The HCI program focuses on the human-centered computing, design and usability testing of interactive technology. Based on HCI, usability, and user experience theory, students learn to create prototypes, simulations, and diagnostic tools for software, mobile apps, and virtual and augmented reality. They also explore the use of 3-D printing and the design of prosthetics, as well as application of big data analytics to address new questions in the fields of health, business, education, and social media.

Dr. Faiola's work also focused on curriculum development and the expansion of programmatic opportunities within and outside of the school, working primarily with the Department Computer Science and Information Technology. Additional responsibilities included hiring faculty, research, and collaboration with community partners.

**Accomplishment Highlights**

- Led development and inauguration of three graduate programs and one undergraduate program in the HCI.
  1. HCI MS Program                    Fall 2002 (*Began*)
  2. HCI Grad. Certif. Program         Spring 2008 (*Began*)
  3. HCI Ph.D. Track, Informatics      Fall 2008 (*Began*)
  4. HCI Undergrad Certif. Program     Fall 2010 (*Began*)

- Led the design and development of all core MS HCI courses, including HCI 1, HCI 2, Usability and Evaluative Methods in HCI, Psychology of HCI, and Prototyping of Interactive Products.

- Led the increase of the HCI Ph.D. program enrollment, from 2 to 22 students in five years (1,000%).

- Led the search for and hired key teaching and research HCI faculty with PhDs or post-doc degrees from Penn State, Cambridge University, Cornell University, and University of Lugano, Switzerland.

- Initiated and co-led the creation of the User Simulation and Experience Research (USER) Lab for faculty and graduate students from HCI, MAS, and HI. USER provided a sandbox for interdisciplinary faculty-student research. It also helped to facilitate collaboration by bringing together investigators from different disciplines such as health informatics and health gaming, interaction design, new media, information visualization, medicine, and the rehabilitation sciences. Specific research areas included:
  o Games for Improving Health
  o Human-Centered Interaction Design
  o Visualization and Interactive Spaces

**DIRECTOR | 2007–2009**
**Media Arts and Science (MAS) Program**
Indiana University—School of Informatics and Computing

**Descriptions:** As Director of Media Arts and Science (MAS) Program, Dr. Faiola oversaw all programmatic and curricula development for both the undergraduate and graduate programs. Established quarterly meetings with the MAS advisory board to address curriculum, program support, and funding. Oversaw faculty and student affairs, enrollment growth and retention, and the general management of the program. As the director of the largest undergraduate program in the school, Dr. Faiola worked primarily with the Purdue University Schools of Science and the Indiana University School of Art and Design to expand course offerings and develop joint programs.

**Accomplishment Highlights**

- Led the faculty to conceive of a new vision and direction for the MAS program. Based on this exploratory work, new undergraduate and graduate programs were formed. (2007)
- Led the revision of the MAS graduate program curriculum, including a new arrangement of the courses based on the new vision, increased program rigor, and the addition of a thesis rather than a capstone.
- Led the development of the MAS certificate program based on the revised MAS graduate program.
- Led a major revision of the MAS undergraduate curriculum, composed of five new program clusters.
- Established an assistant director position for the MAS program (2007).
- Conceived of and directed the revision of the MAS capstone process (2008), transforming it from a week-long activity to a four-hour one-evening event, with a considerable effect on recruitment.
- Wrote and received grant funding to support the creation of the first MAS student-faculty research lab:
  - Received an IUPUI Educational and Learning Environment Grant, used as seed money to build the **Media Arts Research and Learning Arcade (MARLA)**, with the goal to increase and improve undergraduate media arts gaming education and applied research.
  - The media lab of its kind on the IUPUI campus, MARLA provided an environment where undergraduate students from Informatics and other IUPUI programs could collaborate on serious and casual game design.
  - Received a MacArthur Foundation Gaming Educational Grant, of which Dr. Faiola was Co-PI.
  - The MacArthur Foundation grant launched the first major faculty-student project in MARLA.
- Leveraged MARLA resources for faculty to develop an educational partnership with GenCon, the largest gaming conference in the US (allowing students and faculty to interact with key members of the gaming industry and participate in educational workshops.
- Initiated MARLA 2 in 2012, which provided students and faculty from Media Arts, Human Computer Interaction, and Health Informatics, a lab space for empirical mobile gaming/simulation studies.

# APPENDIX B

## ADMINISTRATIVE ACCOMPLISHMENTS

### EXECUTIVE ASSOCIATE DEAN (EAD)—2008–2013
Indiana University—School of Informatics and Computing
Indiana University—Purdue University, Indianapolis (IUPUI)

**Accomplishment Highlights as EAD**

**Program Enrollment Growth and Student Outreach**

**(1)** Initiated and achieved target goals for attaining greater program growth. Final indicators after five years as EAD (2008–2013) demonstrated total growth in the following areas:

- Increased net revenue:  15%  $6.5K to $7.4K
- Increased credit hours:  45% UG  137% MS/Ph.D.
- Increased graduate student applications:  125% MS  20% Ph.D.
- Increased enrollment:  6% UG  70% MS/Ph.D.
- Increased degrees conferred:  25% UG  49% MS
- Increased undergraduate retention:  75% to 86%
- Decreased dependence on state appropriations:  119%

**(2)** Initiated and led discussion of the school's Marketing and Communications Website Task Force, which was composed of faculty and staff. The goal was greater Internet presence. Outcomes from web analytics data show a 95% increase in SoIC website traffic over the last three years.

**(3)** Created the position of communications manager and identified a new communications team focusing on the school's redesigned website (extending our social media outreach) and a full range of inward- and outward-directed communication efforts targeting current and prospective students and parents.

**Student Success** (*Student Services Management*)

**(1)** Led investment of considerable resources to develop an effective and agile Student Services team, composed of three areas: academic advising, career services, and recruitment services. Successes included:

- Retention rates outperforming other schools on the IUPUI campus.
- Employment data placing our students at about a 78% employment rate at the time of graduation, with an average salary of $50K.

**(2)** Led the effort to reorganize Student Services to better facilitate retention, recruitment, and overall program growth by reconstituting and restructuring advising services, which included working with associate deans and academic advisors to increase the quality of advising and career services, involving new initiatives and additional efforts to:

- Intensify collaboration with campus admissions, student life, and the university's colleges.
- Enhance overall efforts to maximize student enrollment, retention, and success.
- Coordinate with academic advising (and Student Services) on strategic initiatives that directly impacted student success.
- Set goals, with a mission of 100% student job placement after graduation (up from 78%).
- Host informatics open houses and game tournaments for local high schools.
- Form online education committees to decide which courses would go online and how to move forward with degree completion.
- Create a support group for adult learners, involving the creation of eight week and weekend programs.
- Build stronger teacher-student bonds, even before enrollment, contributing to student retention and long-term success.

**(3)** Initiated a "Lunch with the Dean" series that took place twice per month, with the goal of giving students from all programs direct access to the administration to voice their concerns, as well as initiating a general discussion about program development and curricula, student rights and responsibilities, and security issues.

## Diversity and Inclusion

As EAD, Dr. Faiola took particular responsibility for leading in diversity and inclusion. During this time, my strongest priorities included supporting students of color, women, and international and culturally diverse students. In close coordination with my Student Services team, Dr. Faiola worked to increase our underrepresented minority student population, with special attention given to enrollment, recruitment, and retention. As of 2011, 36% of the student population was female (an increase of 7% during my time as EAD), 16% were undergraduate students, and 10% were African American and Hispanic students. Under my leadership, the following initiatives highlighted the record of my commitment to an academic culture that celebrates diversity and inclusion. Working in tandem with my faculty and staff, we promoted and supported the following:

**(1) WiT—Women in Technology**, a women's organization initiated by my graduate students (from the human-computer interaction and media arts and science programs) within the School of Informatics and Computing. The organization expanded to women in the School of Engineering and Technology, the School of Science, and then the whole campus. Also, Dr. Faiola initiated a special fund to support the WiT annual one-day symposium in which members met to exchange advancements in their respective fields. This one-day event also included an invited women's speaker.

**(2) SREB—the Southern Regional Education Board**, a regional doctoral scholars' program, with the mission of increasing African American and Latino faculty on U.S. campuses. Dr. Faiola was a strong supporter of this organization's outreach efforts, sending one of my African American Ph.D. students to participate in the annual conference and their mentoring programs. The benefits from her experience are too great to enumerate here.

**(3) GHC—the Grace Hopper Celebration of Women in Computing**, supported by providing funding for women students to travel to this conference annually when their research papers were accepted.

**(4) TAPIA—the Richard Tapia Celebration of Diversity**, which was also supported by providing annual funding for students of color to travel to this conference when their research papers were accepted.

**(5) Other programs**: Dr. Faiola also co-led with my Student Services staff support for STARS (Students and Technology in Academia, Research, and Services) and Latino Youth Project programs.

*A formal statement on diversity and inclusion can be provided on request.*

## Educational Initiatives: Teaching and Research Labs and Task Forces

**(1)** Initiated and led creation of the Media Arts Research and Learning Arcade (MARLA). The creation of MARLA is the result of an Educational and Learning Environment Grant Dr. Faiola received. Based on an additional award (as co-author) from a MacArthur Foundation Grant for Gaming Education, faculty used MARLA to launch the first funded educational game project. The purpose of the lab was to serve as a learning incubator for innovative gaming education and game development. Outcomes included:

- Established the first gaming-learning lab on the IUPUI campus, which facilitates undergraduate media arts gaming education, allowing students to learn and work collaboratively on serious and casual game design. Serious games include games that focus on content related to education, health, and other non-entertainment-centered gameplay.

- Provided additional workspace to further strengthen graduate research in media arts and science (MAS), human-computer interaction (HCI), and health informatics (HI), as well as providing undergraduate students with opportunities to engage in research with MS and Ph.D. students.

- Leveraged MARLA resources for faculty to develop an educational partnership with GenCon, the largest gaming conference in the U.S. (allowing students and faculty to interact with key members of the gaming industry and participate in education).

- Initiated, along with media arts faculty, the creation of the Mobile Gaming Lab (MARLA2.0), involving student and faculty collaboration on group projects in mobile game computing.

**(2)** Initiated and co-led the creation of the User Simulation and Experience Research (USER) Lab for faculty and graduate students from HCI, Media Arts, and HI. Outcomes included:

- Provided a computing sandbox for interdisciplinary faculty research and teaching.
- Facilitated collaboration by bringing together investigators from different disciplines, such as health informatics and health gaming, human-computer interaction design and evaluation, new media and information visualization, and medicine and the rehabilitation sciences.

**(3)** Led the task force of the Council of Undergraduate Education (CUE) to investigate a broad range of challenges related to the advancement of undergraduate education, including program growth, brand identity and marketing, curriculum revitalization and course renewal, enrollment and retention, and course assessment. The mission of CUE was also to achieve compliance with school, university, state, and national educational standards, as well as to establish goals for enrollment and retention, graduation rates, and overall quality control. (CUE was composed of one executive committee that oversaw six sub-committees aligned with different mandates.)

**(4)** Led the informatics undergraduate curriculum committee in a complete revision of the informatics curriculum, including new course design as well as revisions to core and required courses, greatly improving credit hour production for informatics majors.

**(5)** Initiated and co-led, with the associate dean of administration, development of target standards and goals for improving the quality of course delivery and increasing accountability. Areas of focus included:
- Reviewing curriculum development and assessment processes to identify program challenges, as well as program building based on performance indicators.
- Teaching productivity to improve credit hour production in undergraduate and graduate programs, and providing courses of interest to non-informatics majors.
- Recruitment and retention to targeted program majors to improve student quality.


**Research**

As EAD, Dr. Faiola worked with my associate dean for research to support the IUPUI campus mission in health and life science research, leveraging the rich contributions of disciplines that crossed traditional academic boundaries. The following accomplishments were the most outstanding:

**(1)** Provided increasing support for the associate dean for research to initiate growth in research    collaboration and grants:

- At the end of 2008, informatics and computing faculty were listed as collaborators on three proposals (totaling $849,000), and by the end of 2010, that number grew to 27 (proposals totaling $76M—a total of $113M overall). Awarded $22.7M overall; our portion was $1.4M.
- By 2013, SoIC yielded $2.2 in awarded grants between Informatics and the Center for Computational Biology and Bioinformatics.

**(2)** Led the hiring of several key research faculty, including:
- Two faculty in MAS and HI for the school's Games for Health research initiative, a cross-disciplinary partnership between Health Informatics and Media Arts and Science.
- Two tier-one research junior faculty in bioinformatics to strengthen our research initiative in bioinformatics and computational biology.
- Two tier-one research faculty in HCI (human-centered computing) with national reputations.

**Fundraising**

During my time as EAD, SoIC began its strategic plan for fundraising (2009). This aligned with the hiring of our assistant dean for development and alumni relations (ADD). His arrival substantially escalated our campaign planning and management. Thus, Dr. Faiola enthusiastically worked in tandem with the ADD in fundraising to reach our target goal of raising $1M, as part of the IU Impact Campaign. Additional strategic efforts of the campaign included providing support to the school's ADD to: **(1)** encourage school staff and faculty to serve as volunteers leading the campaign, and **(2)** organize our Campaign Executive Committee composed of high-powered leaders from each of the school's main constituencies, including community leaders, alumni, faculty and staff, and other stakeholders in greater Indianapolis. During my time as EAD, outcomes included:

- Secured gifts from 350+ unique donors and several large gifts in the school's history from $25–$100K.
- Recruited 20+ volunteer leaders to assist with cultivation and gift requests.
- Conducted 125+ cultivation and solicitation visits with individuals and firms.
- Secured faculty and staff gifts that surpassed the $100,000 goal by $15K, with participation at 85%.
- Participated in many events and dinners, and launched a mini-campaign raising $130,000.
- Raised over $650,000 for SoIC—and was poised to raise $1M by the end of 2013.

**Building Campus Partnerships**

I initiated the building of strong and sustainable partnerships across Indiana University and Purdue University, Indianapolis campus, which fostered broad collaborations in teaching and research. Accomplishments included:

**(1)** Worked with the deans of the Schools of Medicine and Nursing in creating multiple joint faculty appointments with SoIC, with the intent to extend the development of additional research areas related to health informatics and bioinformatics.
**(2)** Led a collaborative partnership with the School of Nursing by providing HCI and usability engineering support to Health Informatics' applied research projects, partnering in co-authored grants, and providing HCI Ph.D. students who were working directly on funded projects of the School of Nursing and Health Informatics.
**(3)** Led an early discussion on collaboration with fellows from the Regenstrief Institute, with a focus on supporting usability engineering studies to improve health information technologies and make our faculty health records data available for health informatics research.
**(4)** Co-led a collaborative partnership with the School of Science (Department of Computer Science) in course revisions and a renewed mission to advance our relationship in course development related to the informatics and MAS undergraduate programs.
**(5)** Initiated and led collaborative discussions with the Herron School of Art and Design to integrate Herron design courses into the revised media arts and science undergraduate foundation program, and to promote other areas of program commonality and student exchange in graduate programs related to design, media arts, and human-computer interaction.
**(6)** Led a collaborative partnership with the School of Engineering and Technology as a co-author of the awarded Transportation Active Safety Institute (TASI) Signature Center proposal, while serving on the TASI Executive Advisory Board.

**Community Partnerships**

I worked with SoIC's media arts and sciences faculty and students to deliver a broad range of media projects to the Indianapolis community. SoIC's reputation as a supporter of civic work for both for-profit and non-profit entities opened up many internships and full-time employment opportunities for our students. My office engaged in the following endeavors:

**(1)** Worked with MAS faculty to facilitate the growth of dynamic collaborations with local businesses, as well as educational and industry leaders, spawning mutual opportunities for students. Key faculty projects included:

- Caregivers Inc.: This project and its subsidiary company, CareGivers2, provided students with real-world IT health opportunities. Moreover, project leaders sought top-talent students to include in an internship team to assist in the development of a comprehensive suite of web and social media technologies.
- Eiteljorg Museum: This project involved the reengineering of the original Mihtsoseenioki Project as an online educational application for K–12 schools.
- Indiana State Museum: Two projects for the museum provided a broad range of experiences in media that enhanced students' portfolios, aiding in future employment. Projects included the 92-County Walk, an interactive map of the 92 Indiana counties and specific historical highlights; and the Angel Mounds project, a virtual walkthrough of this archeological site.

**(2)** Worked with media arts and sciences faculty to initiate an impressive partnership with GenCon, the original, longest-running, and best-attended gaming convention in the world. The relationship included student-centered activities that gave MAS students increased access to the gaming industry once they graduated, as well as advanced skills in gaming.

**International Education**

As an international scholar and advocate of study abroad programs, my past and present experience has played an important role in shaping my view on diversity, inclusion, and student education related to cross-cultural experiences. As a graduate student in the 1970s, Dr. Faiola studied abroad, and as a faculty member, Dr. Faiola have lectured extensively throughout Europe, China, Russia, and Saudi Arabia. As a three-time Fulbright Scholar in Russia, in teaching and research, Dr. Faiola understand the importance of cultivating international experiences for students and faculty.

These experiences help to expand our knowledge, enhance our sensitivities, and direct our engagement with other diverse cultures. With such knowledge comes acceptance, dialogue, and a more synergetic educational atmosphere in the classroom. Above all, it results in a positive broadening of one's awareness and sense of value of our socio-cultural differences. From the practical side, Dr. Faiola was directly involved in several international programs while at SoIC. These programs promoted student exchange as well as research initiatives. Three such accomplishments included:

**(1)** Co-led efforts to secure international opportunities by offering new study abroad programs, including courses taught in Paros, Greece, and Beijing, China.

**(2)** Led an international initiative (referred to as 2+2) with Sun Yat-Sen University (SYSU) in China that includes joint-degree programs with the SYSU School of Communication and Design and the School of Information Management.

**(3)** Sub-committee member of the Internationalization Initiative of the Vice Chancellor's 2013 campus strategic planning process.