

Caihong R. Li

Quantitative and Psychometric Methods
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EDUCATION

- 01/2019 **Doctor of Philosophy, Quantitative and Psychometric Methods**
 University of Kentucky
 Advisor: Michael D. Toland
 Dissertation: Evaluation of Limited Information Goodness-of-fit Indices
- 05/2017 **Graduate Certificate in Applied Statistics**
 Department of Statistics, University of Kentucky
- 05/2015 **Master of Science, Educational Psychology**
 University of Kentucky
 Advisor: Michael D. Toland
 Thesis: Dimensionality of the Short Grit Scale
- 06/2009 **Bachelor of Science, Educational Technology**
 Tianjin Foreign Studies University (TFSU, Tianjin, China)
 Thesis: English Learning and Teaching Interaction System (HTML)

WORKING EXPERIENCE

- 08/2016 – present Methodologist and psychometrician at Center for Research on Violence Against Women (CRVAW)
- 01/2019 – present Data Manager
 - 08/2016 – 12/2018 Graduate Research Assistant
- 08/2014 – 06/2015 Research Assistant, Robinson Scholars Program, University of Kentucky
- 09/2013 – 06/2015 Research Assistant & Graduate Assistant, P20 Motivation and Learning Lab, University of Kentucky

FELLOWSHIP AND SCHOLARSHIP

- Fall 2016-Spring 2017 Helen Thacker Graduate Fellowship, College of Education, UK (\$4,000)
- Fall 2015-Summer 2016 Graduate School Academic Year Fellowship, UK (\$15,000)
- Fall 2014-Spring 2015 Graduate Student Fellowship, Ashland Inc. (\$7,400)

Fall 2014-Spring 2015 International Student Tuition Scholarships, International Center, UK (\$2,000)

TEACHING EXPERIENCE

- Spring 2019 EDP712 Structure Equation Modeling
- Answering students' online and face-to-face questions about the course materials, homework, and projects.
- Fall 2015-Spring 2016 EDP656 Methodology of Educational Research
- Moving content from Blackboard to Canvas; Textbook selection; Syllabus preparation; Lesson and assignment planning; Quiz creation; PowerPoints preparation, etc.
- Fall 2015 EDP 660 Regression
- Tutoring two doctoral students (third year) in Educational Leadership program on their course content, homework, and research
- Summer 2014 EDP522 Psychological and Educational Tests and Measurements
- Converting class materials into desired format, uploading the class materials (PowerPoints, Youtube links, homework, supplemental dataset, etc) online, assisting with class survey design in Qualtrics, data collection, etc.

MANUSCRIPT

- 15 Follingstad, D.R., **Li, C.R.**, Meadows, H.C., Coker, A.L., & Bush, H.M. (in press). Young adults who do and do not attend institutions of higher education: Are their victimization and perpetration different in high school? *Emerging Adulthood*. [Survey]
- 14 Follingstad, D.R., Chahal, J.K., Bush, H.M., Coker, A.L., **Li, C.R.**, Wu, X., Brancato, C., & Carlson, C.R. (in press). Collecting data for a campus climate survey: One university's survey psychometrics and results. *Violence Against Women*. [Survey, factor analysis, Reliability]
- 13 Follingstad, D.R., Meadows, H.C., **Li, C.R.**, Coker, A.L., & Bush, H.M. (in press). Young adults who do and do not attend institutions of higher education: Are their attitudes and experiences different in high school? *Emerging Adulthood*. [Survey]
- 12 **Li, C.R.**, Toland, M.D., & Follingstad, D. R. (Revise & Resubmit). Religiosity and intimate partner violence among religious adults: A bifactor analysis. *Journal of Interpersonal Violence*. [Survey, Bifactor Analysis, SEM]
- 11 Chahal, J.K., **Li, C.R.**, Follingstad, D.R., & Renzetti, C.M. (2020, in press). Are college students' attitudes related to their application of sanctions for campus sexual

assault cases? *Journal of Interpersonal Violence*. doi:10.1177/0886260520925789
[Correlational]

- 10 **Li, C. R.**, & Toland, M. D. (Revise and Resubmit). Assessing the model fit of multidimensional item response theory models using limited information statistics. *Multivariate Behavioral Research*. [Simulation]
- 9 Follingstad, D.R., **Li, C.R.**, Chahal, J., & Renzetti, C.M. (2020, online first). Students' perceptions of justice: Applications of sanctions, guilt, and responsibility in campus sexual assault cases. *Journal of Family Violence*, 1-24. doi:10.1007/s10896-020-00129-5 [Experimental, Vignette]
- 8 **Li, C.R.**, Follingstad, D.R., Campe, M.I., & Chahal, J. K. (2020, online first). Identifying invalid responders in a campus climate survey: Types, impact on data, and best indicators. *Journal of Interpersonal Violence*, 1-24. doi:10.1177/0886260520918588 [Survey, Latent Class Analysis, Poisson Logistic Regression, Negative Binomial Regression]
- 7 Toland, M. D., **Li, C. R.**, Kodet, J., & Reese, R. J. (2020, online first). Validity of a psychotherapy outcome measure: The outcome rating scale. *Measurement and Evaluation in Counseling and Development*. doi:10.1080/07481756.2020.1745647 [IRT]
- 6 Usher, E. L., **Li, C. R.**, Butz, A. R., & Rojas, J. P. (2018). Perseverant grit and self-efficacy: Are both essential for children's academic success? *Journal of Educational Psychology*. doi:10.1037/edu0000324 [SEM]
- 5 Usher, E. L., Ford, C. J., **Li, C. R.**, & Weidner, B. L. (2018). Math and Science Self-Efficacy Development in Rural Appalachia: Converging Mixed Methods. *Contemporary Educational Psychology*. doi:10.1016/j.cedpsych.2018.10.003. [CFA, SEM, mixed methods]
- 4 Fedewa, A. L., Toland, M. D., Usher, E. L., & **Li, C. R.** (2016). Relationships Between Children's Physical and Psychological Characteristics. *The International Electric Journal of Elementary Education*, 9, 151-166. [correlational]
- 3 Mamaril, N. A., Usher, E. L., **Li, C. R.**, Economy, D. R., & Kennedy, M. S. (2016). Measuring undergraduate students' engineering self-efficacy: A scale validation. *Journal of Engineering Education*, 105, 366-395. doi: 10.1002/jee.20121.[EFA, CFA, reliability, regression]
- 2 Usher, E. L., Mamaril, N. A., **Li, C. R.**, Economy, D. R., & Kennedy, M. S. (2015). Sources of self-efficacy in undergraduate engineering. *Proceedings of the 2015 ASEE Annual Conference and Exposition*, Seattle, Washington. [Qualitative]

- 1 Kennedy, M. S., Usher, E. L., Mamaril, N. A., Economy, D. R., **Li, C. R.**, & Sharp, J. (2015). Undergraduate students' materials science and engineering self-efficacy: Assessment and implications. *Proceedings of the 2015 ASEE Annual Conference and Exposition*, Seattle, Washington. [CFA]

PRESENTATIONS

- Li, C.R.**, Calvert, J.M., Wu, X., Chahal, J., & Follingstad, D. (2019, November). Is Pregaming a Risk Factor for Sexual Victimization : A Campus Study Among College Women. Paper accepted for presentation at the 2019 American Society of Criminology Conference, San Francisco, CA
- Hanley, C., Toland, M. D., Qiu, C., Wu, R., Thompson, F, **Li, C.R.**, & Niu, C. (2019, August). *Resident Advisor (RA) Belongingness with a Residence Hall and to Other RAs: Differential Item Functioning Study*. Paper accepted for presentation at the 127th American Psychological Association Conference, Chicago, IL
- Toland, M. D., Lingat, J. M., Qiu, C., **Li, C.R.**, Ford, C., Chen, X., Han, J., Clement, T., Blevins, J., & *Shen, L. (2019, August). *Measuring Resident Advisor Self-Efficacy: A Differential Item Functioning Study*. Paper accepted for presentation at the 127th American Psychological Association Conference, Chicago, IL.
- Toland, M. D., Spiker, D., **Li, C.R.**, Shen, L., Dueber, D. M., & Qiu, C. (2019, August). *College Students' Roommate Satisfaction : Multilevel Longitudinal Dyadic Analysis*. Paper accepted for presentation at the 127th American Psychological Association Conference, Chicago, IL.
- Han, J., Usher, E. L., **Li, C. R.**, Ford, C. J., Chen, X. Y., Corcoran, K. A., Worick, C. E., & Brown, C. S. (2019, August). *Quantitative self-efficacy across the first year of college: Trajectories by gender and STEM major*. Poster accepted for presentation at the biennial meeting of the European Association for Research on Learning and Instruction, Aachen, Germany.
- Li, C.R.**, Chahal, J., Follingstad, D.R., & Renzetti, C. (2018, November). *Revisiting the Updated Illinois Rape Myth Acceptance Scale : An Item Response Theory analysis*. Paper presented at the 2018 annual conference of the American Society of Criminology, Atlanta, GA.
- Chahal, J., **Li, C.R.**, Follingstad, D.R., & Renzetti, C. (2018, November). *Justice on campus : A culture perspective*. Paper presented at the 2018 annual conference of the American Society of Criminology, Atlanta, GA.
- Chahal, J., **Li, C.R.**, Follingstad, D.R., & Renzetti, C. (2018, July). *Investigating campus justice among minority college students*. Paper presented at the 2018 International Family Violence and Child Victimization Research Conference, Portsmouth, NH.

- Li, C.R.**, Zhou, H., & Toland, M.D. (2018, April). *Assessing M_2 and $RMSEA_2$ of multidimensional Item Response Theory models*. Paper accepted to the annual conference of the National Council on Measurement in Education, New York, NY.
- Renzetti, C.M., Chahal, J., **Li, C.R.**, & Follingstad, D. (2017, November). *What is Justice? Students' judgments of fair and just responses to campus sexual assault*. Paper presented to the annual conference of the American Society of Criminology, Philadelphia, PA.
- Chahal, J., **Li, C.R.**, Follingstad, D., & Renzetti, C. (2017, November). *Are college students' judgments of sanctions for sexual assault cases on campus moderated by attitudes and traits?* Paper presented to the annual conference of the American Society of Criminology, Philadelphia, PA.
- Li, C.R.** (2017, November). *Introduction to latent class analysis using Mplus*. Applied Quantitative and Psychometric Series, University of Kentucky, Lexington, KY. <https://www.youtube.com/watch?v=Z-xmVCC0Y-8>
- Li, C.R.** (2017, October). *How to reply to reviewers' comments*. Invited talk presented for the UK Fostering Research through Engagement and Dialogue (UK FRED) Talk, University of Kentucky, Lexington, KY. <https://www.youtube.com/watch?v=0BGFS-enckE> (starting from 13:36 to 23:30)
- Li, C.R.** & Wu, R. (2017, September). *Intensive workshop on SPSS*. Invited workshop presented for the Quantitative Initiative for Policy and Social Research (QIPSR), University of Kentucky, Lexington, KY.
- Dueber, D. & **Li, C.R.** (2017, August). *Intensive workshop on Mplus*. Invited workshop presented for the Quantitative Initiative for Policy and Social Research (QIPSR), University of Kentucky, Lexington, KY.
- Usher, E. L., **Li, C. R.**, Ford, C. J., & Weidner, B. L. (2017, August). *Sources of mathematics and science self-efficacy among adolescents in rural Appalachia*. Paper presented at the biennial meeting of the European Association for Learning and Instruction. Tampere, Finland.
- Li, C. R.**, Usher, E. L., Mamaril, N. A., Chen, X. Y., Roeder, M. L., Bohac, S. W., Chenot, S. B., & Kennedy, M. S. (2016, August). *Sources of self-efficacy in engineering students*. Poster presented at the annual meeting of the American Psychological Association, Denver, CO.
- Kim, N. A., **Li, C. R.**, Ali, H. A., Bohac, S. W., Ellis, H. B., Neeley, R. M., McCrea, B. L., & Usher, E. L. (2016, August). *Motivational correlates of academic achievement among at-risk youth*. Poster presented at the annual meeting of the American Psychological Association, Denver, Colorado.

- Usher, E. L., **Li, C. R.**, Butz, A. R., & Rojas, J. P. (April, 2016). *Grit and self-efficacy: Are both essential for children's academic success?* Paper presented at the meeting of the American Educational Research Association, Washington, DC.
- Joanne, R., Toland, M. D. & **Li, C. R.** (2015, August). *Multidimensional item response theory analysis of the grit scale*. Paper presented at the 2015 American Psychology Association Annual Conference, Toronto, Canada.
- Kim, N. H., **Li, C.R.**, & Usher, E. L. (2015, August). *Four Sources of Self-Efficacy and Efficacy Beliefs of At-Risk Students*. Poster presented at the 2015 American Psychology Association Annual Conference, Toronto, Canada.
- Li, C. R.**, Toland, M. D., Mamaril, N., & Usher, E. L. (2015, July). *The Short Grit scale: Dimensionality analyses*. Paper presented at the 2015 Division D In-Progress Research Gala of the American Educational Research Association.
- Usher, E. L., **Li, C. R.**, Mamaril, N. A., Economy, D. R., & Kennedy, M. S. (2015, June). *Undergraduate students' materials science and engineering self-efficacy: Assessment and implications*. Paper presented at the annual American Society for Engineering Education Conference, Seattle, WA.
- Usher, E.L., Mamaril, N. A., **Li, C. R.**, Economy, D. R., & Kennedy, M. S. (2015, June). *Sources of self-efficacy in undergraduate engineering*. Paper presented at the Annual American Society for Engineering Education Conference, Seattle, WA.
- Li, C. R.**, Kim, N. A., Covington, S.T., Butz, A. R., & Usher, E. L. (2015, March). *Is college just a dream? College beliefs in at-risk youth*. Poster presented at the 2015 Spring Research Conference, Louisville, KY.
- Jones. R. S., Kim, N. A., **Li, C. L.**, Chen, X. Y., Neeley, R. M., Usher, E. L., & Danner, F. (March, 2015). *At-risk adolescents' autonomy, relatedness, and stigma: A story of interaction*. Paper presented at the 2015 Spring Research Conference. Louisville, Kentucky.
- Kim, N. A., **Li, C. R.**, & Usher, E. L. (2015, March). *Sense of school belonging and coping self-efficacy among at-risk youth*. Poster presented for presentation at the 2015 Spring Research Conference, Louisville, KY.
- Li, C. R.**, Conway, A. E., Kim, A., Butz, A. R., Mamaril, N. A., & Usher, E. L. (2014, April). *Sources of academic and self-regulatory self-efficacy of at risk students in an alternative school environment*. Poster presented for presentation at the Spring Research Conference, Cincinnati, OH.

CAREER DEVELOPMENT

Software Programs

HLM, IRTpro, FlexMIRT, Mplus, Qualtrics, R package, SAS, SPSS, Survey Monkey, Winsteps, Adobe Captivate, Blackboard, Canvas, Endnote, Goldenwave, Mendeley, Microsoft Office Suite, **Microsoft Access**, Asana (task-management system), HTML, Flash

Affiliations

American Psychological Association (APA)
American Educational Research Association (AERA)
American Society of Criminology (ASC)
National Council on Measurement in Education (NCME)

Workshops

Peugh, J. (March, 2017). Applied missing data handling. University of Kentucky.
Peugh, J. (April, 2017). Change over time: Model specifications and missing data considerations. University of Kentucky.
Watson, S. (January, 2018). Mapping variation in QGIS. University of Kentucky.
Lindstrom, A. (April, 2019). How to use Tableau. University of Kentucky.

Ad Hoc Reviewer

The Journal of Experimental Education
Educational and Psychological Measurement
Journal of Educational Psychology
Contemporary Educational Psychology
Violence Against Women