Daniella Rebouças

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Education

Ph.D., Quantitative Psychology   2016–2021 (expected)
University of Notre Dame, Notre Dame, IN
Advisor: Dr. Ying "Alison" Cheng

M.S., Applied and Computational Mathematics and Statistics   2014–2015
University of Notre Dame, Notre Dame, IN

B.S./B.Ed., Mathematics   2009–2013
Universidade de São Paulo, São Carlos, SP, Brazil

Professional Experience

Summer Research Internship   2019
Educational Testing Service (ETS), Princeton, NJ
Project: *Exploring Group Differences with Process Data from the PIAAC.*
Mentors: Dr. Qiwei He and Dr. Xiang Liu.

Publications

Rebouças, D., Cheng, Y. (2019). Relationship between item characteristics and detection of differential item functioning under the MIMIC Model. *Psychological Test and Assessment Modeling, 61*(2), 227-257.

Hong, M., **Rebouças, D.**, Cheng, Y. (submitted) Robust estimation of working speed using the log-normal model for response time data.

Cheng, Y., Brodersen, A., **Rebouças, D.**, (2016). Item type, dimensionality and missing data. White-paper submitted to the *JRC, National Council of State Boards of Nursing* (NCSBN).

Manuscripts in Preparation

Rebouças, D., Whitney, B., Hong, M., Cheng, Y. An application of Kane's framework of validation to the Scale of Student Engagement in AP statistics.

Rebouças, D., Cheng, Y. Bayesian estimation of the log-normal model for response time data.

Rebouças, D., Cheng, Y. Application of change-point bivariate analysis of item responses and response time data to detect test speededness.

Rebouças, D., Cheng, Y. DIF effect size measures: review and implications for power of DIF detection.

Shao, C., **Rebouças, D.**, Cheng, Y. Application of change-point analysis of response time data to detect test speededness.

Rebouças, D., Suzuki, H.*, Cheng, Y. Validation of a teacher support scale for AP statistics students.

Rebouças, D., Brodersen, A., Wang, L. Evaluating measurement invariance in second-order latent growth models with shifting indicators.

*undergraduate student mentee

Presentations

Rebouças, D., Cheng, Y. (Apr. 2020). *Change-Point Analysis with Joint Modeling of Response Times and Item Response Data.* Symposium presentation. National Council on Measurement in Education Annual Meeting (NCME). San Francisco, CA.

Rebouças, D., He, Q., Liu, X. (Apr. 2020). *Exploring group differences in large-scale assessments using latent class analysis on process data.* Symposium presentation. National Council on Measurement in Education Annual Meeting (NCME). San Francisco, CA.

Rebouças, D., Cheng, Y. (Jul. 2019). *Bivariate change-point analysis of speeded respondents using response time and response accuracy.* Oral presentation. International Meeting of the Psychometric Society (IMPS). New York, NY.

Rebouças, D., Cheng, Y. (Jul. 2018). *DIF effect size measures: review and implications for power of DIF detection.* Oral presentation. International Meeting of the Psychometric Society (IMPS). New York, NY.

Rebouças, D., Cheng, Y. (Oct. 2017). *Relationship between item characteristics and DIF detection under the MIMIC model.* Oral presentation. Ideas in Testing Research Seminar. Department of Psychology at the Illinois Institute of Technology (IIT) and Pearson VUE. Chicago, IL.

Rebouças, D., Cheng, Y. (Apr. 2016). *Handling missing data on DIF detection under the MIMIC model.* Oral presentation. National Council on Measurement in Education Annual Meeting (NCME). Washington, DC.

Mentorship Experience

Johnston, A., **Rebouças, D.**, Cheng, Y. (Jul. 2018). *Are all Personality Inventories Equal? Assessing the Applicability of the BFI-2 to Adolescent Boys and Girls.* Poster presentation. Computational Social Science Research Experience for Undergraduates (REU) Site at the Center for Research Computing. Funded by the National Science Foundation. Notre Dame, IN.

Qu, H., **Rebouças, D.**, Cheng, Y. (Apr. 2018). *To Take or Not To Take: Factors of Participation in the AP Statistics Exam.* Senior thesis defense. Glynn Family Honors Program. Notre Dame, IN.

Teaching Experience

Teaching Assistant / Lab Instructor: Experimental Psychology I   2018 Fall
Undergraduate-level class lead by Dr. Ross Jacobucci. University of Notre Dame.

Visiting Lecturer: Item Response Theory with R   2017 Fall
Graduate-level class lead by Dr. Ying Cheng. University of Notre Dame.

Item Response Theory with R - Training Sessions   2015 Summer
For undergraduate students of the NSF Psychometric Summer Fellowship program.
Supervisor: Dr. Ying Cheng. University of Notre Dame.

Volunteer Educator at *Projeto Ancora*   2014 Spring
For elementary and middle school students from inner-city São Paulo, SP, Brazil.

Undergraduate Teaching Assistant: Stochastic Processes   2013 Fall
Supervisor: Dr. Pablo M. Rodriguez. University of São Paulo.

Undergraduate Teaching Assistant: Calculus I   2013 Spring
Supervisor: Dr. Fernando Manfio. University of São Paulo.

Awards

Jul. 2019	**Graduate Professional Development Award - $1,000** Notebaert Professional Development Fund, University of Notre Dame. Support for conference travel.
Aug. 2019	**Professional Development Funds - $400** Department of Psychology, College of Arts & Letters, University of Notre Dame.
Aug. 2016	**Professional Development Funds - $1,500** Office of the Dean, College of Arts & Letters, University of Notre Dame.
Aug. 2014	**Fellow of the Science Without Borders Scholarship Program** Agency for Support and Evaluation of Graduate Education of Brazil (CAPES). Masters program tuition and stipend. $\approx \$60,000$
Jan. 2014	**Highest GPA of the Graduating Class** Department of Teaching in Mathematics, University of São Paulo.

Technical Skills

Statistical Software:	R (advanced), Mplus (intermediate), SPSS (intermediate), SAS (beginner)
Other:	LaTeX(advanced), Emacs (intermediate), Microsoft Office Suite (intermediate), Python (beginner), GitHub (beginner)

Service

2019–2020	Quantitative Area Representative for the Graduate Advisory Committee. Department of Psychology, University of Notre Dame.
2019–2020	Treasurer for the Expanding Your Horizons Conference Committee.
2019–2020	Graduate Student Liaison for the AERA Division D International Committee.
Spring 2019	Mentor for the Expanding Your Horizons Conference.
Fall 2018	Facilitator of the Psychology Graduate Students Writing Accountability Group Department of Psychology, University of Notre Dame.
2017–2018	Quantitative Area Representative of the Clinical Program Diversity Committee Department of Psychology, University of Notre Dame.

Memberships and Activities

2018–2019	Psychometric Society NCME - National Council on Measurement in Education AERA - American Educational Research Association
2018–2019	Volunteer at the South Bend Roller Girls, a nonprofit roller derby league and member of the Women's Flat Track Derby Association. South Bend, IN.
2016–2018	Soprano at *Chorale*, the official concert choir for the University of Notre Dame. Department of Music, University of Notre Dame.
2010–2012	Student member of the planning committee of the *XV Symposium of Mathematics for Undergraduates.* Department of Mathematics. University of São Paulo.
2009–2010	Secretary for the Young Adults Group for the First Presbyterian Church of São Carlos, SP, Brazil.

Relevant Coursework

Psychological Measurement and Test Development	*Item Response Theory*
Structural Equation Modeling	*Longitudinal Data Analysis*
Multivariate Statistics	*Data Mining*