Daniella Rebouças

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Education

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

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

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

Professional Experience

Statistical Consultant   2020 Spring/Summer
Department of Psychology, University of Notre Dame, Notre Dame, IN.
Supervisor: Dr. Ke-Hai Yuan.
Worked as consultant to faculty and graduate students projects on statistical modeling and computational techniques.

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

Technical Skills

Statistical Modeling:	Item Response Theory, Linear Models, Mixture Models, Machine Learning, and Data Mining
Statistical Software:	R (advanced), Mplus (intermediate), SPSS (intermediate), SAS (beginner)
Other:	LaTeX (advanced), Microsoft Office Suite (intermediate), Emacs (intermediate), GitHub (intermediate), Python (beginner)

Publications

Hong, M., **Rebouças, D. A.**, Cheng, Y. (in press). Robust estimation of working speed using the log-normal model for response time data. *Journal of Educational Measurement.*

Rebouças, D. A., 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.

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

Manuscripts under Review

Rebouças, D. A., Cheng, Y. (under review). Bayesian estimation of the log-normal model for response time data. *Applied Psychological Measurement.*

Ober, M. T., Hong, M., **Rebouças, D., A.**, Carter, M. F., Liu, C., Cheng, Y. (under review) Linking self-report and process data to performance across different assessment types. *Journal of Research in Mathematics Education.*

Ober, M. T., Brodersen, A. S., **Rebouças, D., A.**, Hong, M. R., Carter, M. F., Liu, C., Cheng, Y. (under review) Math Anxiety, Engagement, and Performance in High and Low-stakes Tests in AP Statistics. *Computers & Education.*

Ober, M. T., Coggins, M. R., **Rebouças, D., A.**, Suzuki, H., Y. (under review) Effect of teacher support on students' math attitudes: measurement and moderation of students' background characteristics. *Contemporary Educational Psychology.*

PRESENTATIONS

Rebouças, D. A., Cheng, Y. (Aug. 2020). Modelo exploratório para tempos de resposta: aplicações para avaliações psicológicas online [*Exploratory models for response time modeling: an application to psychological assessment*]. Invited talk. Seminars Series (PPGE-UFPE). Department of Statistics. Universidade Federal de Pernambuco. Virtual.

Rebouças, D. A., Cheng, Y. (Jul. 2020). *Careless responses using response time data.* Oral presentation. International Meeting of the Psychometric Society (IMPS). Virtual.

Rebouças, D. A., 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. (cancelled)

Rebouças, D. A., 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. (cancelled)

Rebouças, D. A., 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. A., 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. A., 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. A., 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

Coggins, M. R., Ober, T. M., **Rebouças, D. A.**, Suzuki, H., Cheng, Y. (2020, May). *Teacher support and math attitudes: Split sample confirmatory factor analyses and structural equation model.* Poster presentation. Annual Meeting of the Association for Psychological Science. Chicago, IL. (cancelled)

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

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.

Teaching Experience

Teaching Assistant / Lab Instructor: Experimental Psychology I 2019 Fall
Undergraduate-level class lead by Dr. Bradley Gibson. University of Notre Dame.

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.

Service

2020–2021	Graduate Peer Mentor of the Diversity, Equity and Inclusion (DEI) Committee. Department of Psychology, University of Notre Dame.
2019–2021	Co-instructor of the Quantitative Study Group weekly seminars. Department of Psychology, University of Notre Dame.
2019–2020	Quantitative Area Representative for the Graduate Advisory Committee (GAC). 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 Diversity, Equity and Inclusion (DEI) Committee Department of Psychology, University of Notre Dame. Brazil.

Relevant Coursework

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