

DANIELLA REBOUÇAS

University of Notre Dame
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EDUCATION

- Ph.D., Quantitative Psychology** 2016–May 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

- Statistical Consultant** 2020 SPRING/SUMMER
Department of Psychology, University of Notre Dame, Notre Dame, IN.
Supervisor: Dr. Ke-Hai Yuan.
Provided consulting services 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.*
- Volunteer Educator** 2014 SPRING
Projeto Âncora, Cotia, SP, Brazil.
Worked with elementary and middle-school students as a math specialty educator for an experimental school in inner-city São Paulo.

PUBLICATIONS

- Rebouças, D. A.**, & Cheng, Y. (accepted). Explanatory response time models. In: *Quantitative Psychology: 85th Annual Meeting of the Psychometric Society, Virtual, 2020* (Vol. 323). Springer.
- Hong, M., **Rebouças, D. A.**, & Cheng, Y. (2020). Robust estimation of working speed using the log-normal model for response time data. *Journal of Educational Measurement*.
- Ober, T. M., **Rebouças, D. A.**, Brodersen, A. S., Carter, M., & Cheng, Y. (2020). Examining how engagement mediates the association between procrastination and math anxiety. In: *Proceedings of the 2020 Annual Meeting of the American Educational Research Association*.
- Kim, S. Y., Kark, S. M., Daley, R. T., Alger, S. E., **Rebouças, D. A.**, Kensinger, E. K., & Payne, J. D. (2020). Interactive effects of stress reactivity and rapid eye movement sleep theta activity on emotional memory formation. *Hippocampus*, 30, 829–841.
- 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. *Computers & 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.
- Ober, M. T., Coggins, M. R., **Rebouças, D., A.**, Suzuki, H., Cheng & Y. (under review) Effect of teacher support on students' math attitudes: measurement and moderation of students' background characteristics. *Contemporary Educational Psychology*.
- Hong, M., Carter, M., Ober, T., **Rebouças, D., A.**, Liu, C., & Cheng, Y. (under review). Machine learning approaches to predict student attrition in AP statistics. *AERA Open*.

MANUSCRIPTS IN PREPARATION

- Rebouças, D.**, Whitney, B., Hong, M., Ober, T. M., & Cheng, Y. (in preparation) An application of Kane's framework of validation to the Scale of Student Engagement in AP statistics.
- Rebouças, D.**, & Cheng, Y. (in preparation). Application of change-point bivariate analysis of item responses and response time data to detect test speededness.
- Rebouças, D.**, & Cheng, Y. (in preparation). DIF effect size measures: review and implications for power of DIF detection.

PRESENTATIONS

- Rebouças, D. A.**, & Cheng, Y. (2020, August). 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. (2020, July). *Careless responses using response time data*. Oral presentation. International Meeting of the Psychometric Society (IMPS). Virtual.
- Rebouças, D. A.**, & Cheng, Y. (2020, April). *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. (2020, April). *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]
- Ober, T. M., **Rebouças, D. A.**, Brodersen, A. S., Carter, M. F., & Cheng, Y. (2020, April). *Examining how engagement mediates the association between procrastination and math anxiety*. Roundtable presentation. Annual Meeting of the American Educational Research Association (AERA), San Francisco, CA. [cancelled]
- Rebouças, D. A.**, & Cheng, Y. (2019, July). *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. (2018, July). *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. (2017, October). *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. (2016, April). *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

- NCME Pipeline Scholarship - \$1,500** 2020 FEB.
National Council on Measurement in Education.
Support for conference travel.
- Graduate Professional Development Award - \$1,000** 2019 JUL.
Notebaert Professional Development Fund, University of Notre Dame.
Support for conference travel.
- Professional Development Funds - \$400** 2019 AUG.
Department of Psychology, College of Arts & Letters, University of Notre Dame.
- Professional Development Funds - \$1,500** 2016 AUG.
Office of the Dean, College of Arts & Letters, University of Notre Dame.
- Fellow of the Science Without Borders Scholarship Program** 2014 AUG.
Agency for Support and Evaluation of Graduate Education of Brazil (CAPES).
Masters program tuition and stipend. \approx \$60,000
- Highest GPA of the Graduating Class** 2014 JAN.
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.
- Instructor of Item Response Theory with R** 2015 SUMMER
Undergraduate-level class series for the NSF Psychometric Summer Fellowship program.
Supervisor: Dr. Ying Cheng. University of Notre Dame.
- 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.

TECHNICAL SKILLS

Statistical Software: R, Mplus, SPSS, SAS, Python
Other: Microsoft Office Suite, L^AT_EX, Emacs, Git, GitHub

SERVICE

- 2020–current **Graduate Peer Mentor** of the Diversity, Equity and Inclusion (DEI) Committee. Department of Psychology, University of Notre Dame.
- 2019–current **Co-Instructor** of the Quantitative Study Group (QSG) weekly seminars. Department of Psychology, University of Notre Dame.
- 2019–2020 **Treasurer** for the [Expanding Your Horizons](#) Conference committee. South Bend, IN. **Quantitative Area Representative** for the Graduate Advisory Committee (GAC). Department of Psychology, University of Notre Dame. **Graduate Student Liaison** for the AERA Division D International Committee.
- SPRING 2019 **Panelist** for the Graduate Professional Development event “*Attending and Presenting at Academic Conferences*”. Department of Psychology. University of Notre Dame. **Mentor** for the 2019 [Expanding Your Horizons](#) Conference event. South Bend, IN.
- 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.
- SUMMER 2018 **Ambassador** of the Graduate Student Orientation. Social Media Team. The Graduate School. University of Notre Dame.

MEMBERSHIPS AND ACTIVITIES

- 2016–current Psychometric Society
National Council on Measurement in Education (NCME)
American Educational Research Association (AERA)
- 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

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| <i>Psychological Measurement and Test Development</i> | <i>Item Response Theory</i> |
| <i>Structural Equation Modeling</i> | <i>Generalized Linear Models</i> |
| <i>Multivariate Statistics</i> | <i>Longitudinal Data Analysis</i> |
| <i>Bayesian Statistics</i> | <i>Data Mining</i> |