QIZHOU DUAN

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Departmental of Psychology, University of Notre Dame & Notre Dame, IN 46556

EDUCATION

University of Notre Dame

Expected 2025

Ph.D. in Quantitative Psychology

University of Notre Dame

May 2023

M.S. in Applied and Computational Mathematics and Statistics

The College of William & Mary

May 2020

B.S. in Mathematics B.S. in Psychology

RESEARCH INTERESTS

Item Response Theory, Response Time Models, Differential Item Functioning, Non-parametric Statistics, Survival Analysis, Meta-Analysis

RESEARCH EXPERIENCE

Learning Analytics and Measurement in Behavioral Sciences Lab Graduate Researcher

Fall 2020 - Present

Notre Dame, IN

- · Conducting original research in psychometrics.
- · Updating information about lab members and adding new pages to the lab website periodically.
- · Mentoring undergraduate researchers.

Notre Dame Institutional Research, Innovation, and Strategy Researcher

Fall 2024 - Present

Notre Dame, IN

- · Creating Visualizations for Institutional survey data and presenting it to stake holders.
- · Working with institutional ranking data.

Notre Dame Department of Psychology

Fall 2023

Statistical Consultant

Notre Dame, IN

· Providing statistical service to students and faculty in the psychology department ranging from statistical models to data processing techniques.

The College of William and Mary, Department of Psychology Undergraduate Researcher

Spring 2019 - Spring 2020

Williamsburg, VA

- · Predicting Religiosity Project: Worked with Large Dataset, executed multiple regression analysis.
- · Benefit Valuation and Gratitude Project: Data collection and cleaning, ran multilevel models in R.
- · Lying and Memory Project: Data collection and cleaning, python programming, performed ANOVA.

State Key Laboratory of Cognitive Neuroscience and Learning

Summer 2018

Research Assistant

Beijing, China

Translating literature in cognitive neuroscience from English to Chinese, and proof-reading pre-publication manuscripts for doctoral students.

TEACHING

- University of Notre Dame:
 - Spring 2022, Teaching Assistant.
 - * Statistics for Behavioral Sciences (PSY 30100)
 - * Students rating (4.7/5.0)
 - Fall 2023, Teaching Assistant.
 - * Methods for Behavioral Sciences (PSY 30160)
 - * Students rating (4.9/5.0)

PUBLICATIONS

- 1. Duan, Q. & Cheng, Y., (In press) Detecting Differential Item Functioning Using Response Time. Educational and Psychological Measurement.
- 2. Ober, T., Duan, Q., Kane, E., Blacklock, C., & Cheng, Y., (under review) Student Engagement during COVID-19: A Systematic Review and Meta-analysis. Educational Research Review.
- 3. Ai. L. A, Duan, Q., Rwil, & Carrett., (under review) Association of Posttraumatic Growth with Covid-19 and Posttraumatic Stress: A Meta-analytic Review. Psychological Trauma: Theory, Research, Practice, and Policy.
- 4. Duan, Q., (2015) Listen to the Sound of Time: Poems and Prose Anthology of Qizhou Duan. CreateSpace Independent Publishing Platform.

WORKING PAPERS

- 1. Duan, Q. & Cheng, Y., Non-parametric Response Time Estimation for Assessing Model Fit.
- 2. Duan, Q. & Cheng, Y., A Censored Lognormal Distribution for Response Time at Item Level.
- 3. Duan, Q. & Cheng, Y., A Machine Learning Approach to Assess Differential Item Functioning in Response Time.
- 4. Duan, Q., Xu, C., & Kirkpatrick, L., Benefit Valuation and Gratitude.

PRESENTATIONS

- 1. Ai, A., Duan, Q. & Raney A., (2024, August) Character Strength Spirituality and Hope Mediate the Faith-based Coping and 3-Types of Wellbeing. Paper presented Spirituality and Mental Health in Natural Hazzard and Related Existential Crises Symposium at 2024 American Psychological Association Convention, Seattle, WA.
- 2. Ai, A., Duan, Q., Qiu, G., Sabuncu, C., & Stouffer, G., (2024, August) Cardiovascular Disease and Posttraumatic Growth: A Meta-analytic Review. Poster Presentation at 2024 American Psychological Association Convention, Seattle, WA.
- 3. Duan, Q., Chen, L., Ye, I., & Kirkpatrick, L., (2024, April) Gratitude and Benefit Valuation. Poster Presentation at 2024 Midwestern Psychological Association Annual Meeting, Chicago, IL.
- 4. Duan, Q., Le, A., & Cheng, Y., (2023, December) A Machine Learning Approach to Assess Differential Item Functioning in Educational Testing. Research Lightning Talk at 2023 Trustworthy AI Lab for Education Summit, Notre Dame, IN.

- 5. Duan, Q., Cheng, Y. (2023, November) Nonparametric Response Time Estimation for Evaluating Model Fit. Paper Presentation at 2023 Ideas In Testing Research Seminar, Chicago, IL.
- Kane, E., Blacklock, C., Duan, Q., Ober, T., & Cheng, Y., (2023, May) Student Engagement During COVID-19: A Systematic Review and Meta-Analysis. Poster Presentation at 2023 Association for Psychological Science Annual Convention, Washington DC.
- 7. Duan, Q., Cheng, Y. (2023, April) Detecting DIF in Response Time Using Bootstrap Percentile Method. Paper Presentation at 2023 Annual National Council on Measurement and Education, Chicago, IL.
- 8. Duan, Q., Cheng, Y. (2022, April) Detecting Differential Item Functioning Using Response Time. Paper Presented at Response Time Symposium in 2022 Annual National Council on Measurement and Education, San Diego, CA.

LEADERSHIP AND SERVICE

Graduate Student Union Representative, Department of Psychology Graduate Advisory Committee Representative, Department of Psychology Faculty Meeting Student Representative, Department of Psychology Statistical Consultant, Department of Psychology

HONORS AND AWARDS

Notre Dame Program for Interdisciplinary Educational Research Burns Fellow (2020-Present) Notre Dame Summer Tuition Scholarship (2021/22/23/24)

Modern Meta Analysis Research Institute Funded Student (Summer 2022)

The College of William and Mary Institutional Honor: magna cumme laude (Spring 2020)

The College of William and Mary Dean's List (2016, 2018, 2019)

TECHNICAL STRENGTHS

Programming Languages R, Python, SQL, SPSS

Markup Languages Languages Languages Languages

System Administration Debian GNU/Linux

Large Datasets PISA, GSS

Languages English (Fluent), Chinese (Native)

PROFESSIONAL MEMBERSHIPS

National Council on Measurement in Education American Educational Research Association Midwestern Psychological Association Psi Chi International Honors Society in Psychology Modern Meta Analysis Research Institute The Erdős Institute