

# QIZHOU DUAN

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E418 Corbett Hall ◇ Notre Dame, IN 46556

## EDUCATION

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**University of Notre Dame** 2020-2025

Ph.D. in Quantitative Psychology

M.S. in Applied and Computational Mathematics and Statistics

**The College of William & Mary** 2016-2020

B.S. in Mathematics

B.S. in Psychology

Minor in Philosophy

## RESEARCH INTERESTS

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**Item Response Theory, Differential Item Functioning, Measurement Invariance,  
Response Time Models, Aberrant Response Patterns, Meta-Analysis, Effect Sizes**

## WORKING EXPERIENCE

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**Learning Analytics and Measurement in Behavioral Sciences Lab** 2020 - Present  
*Graduate Researcher* Notre Dame, IN

- Presenting my current works to the lab each semester.
- Maintaining and updating the lab website.
- Mentoring undergraduate researchers in the lab.
- Organizing annual conference itineraries for the lab.

**University of Notre Dame, Department of Psychology** Spring 2022  
*Teaching Assistant* Notre Dame, IN

- Lead statistics lab sessions by lecturing two times per week and giving quizzes occasionally.
- Hold office hours providing additional helps for the students.
- Graded exams, homeworks, and quizzes.
- Overall evaluation by the students: 4.7/5

**The College of Willam and Mary, Department of Psychology** Spring 2019 - Spring 2020  
*Research Assistant; Undergraduate Researcher* Williamsburg, VA

- Predicting Religiosity Project: Working with Large Dataset, executing multiple regression analysis.
- Welfare Tradeoff Ratio Project: Data collection and cleaning, running multilevel models in R.
- Lying and Memory Project: Data collection and cleaning, python programming, performing ANOVA.

**State Key Laboratory of Cognitive Neuroscience and Learning** Summer 2018  
*Research Assistant* Beijing, China

- Translating recent literature in cognitive neuroscience from English to Chinese.
- Proof-reading pre-publication manuscripts for doctoral students.

**Youth Building Bridges** Summer 2015  
*Teacher* Gansu, China

- Volunteer teacher to an impoverished area in Gansu, China.
- Taught Mathematics and Chinese poetry.

## **PRESENTATIONS**

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1. 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.
2. 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.
3. 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.
4. Duan, Q., Cheng, Y. (2021, August) Detecting Differential Item Functioning Using Response Time. Notre Dame Psychology First Year Project Poster Session, Notre Dame, IN.
5. Duan, Q., Yang, T. (2019, November) Great Discoveries in Sciences. Poster presented at William and Mary COLL-300 Undergraduate Poster Session, Williamsburg, VA.

## **MANUSCRIPTS IN PREPARATION**

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1. Non-parametric Response Time Estimation for Assessing Model Fit and Its Applications
2. Detecting Differential Item Functioning Using Response Time
3. Reliability in Response Time
4. Student Engagement During COVID-19: A Systematic Review and Meta-Analysis
5. Welfare Trade Off Ratio and Gratitude
6. Critiquing Misunderstandings on Evolutionary Theory in Psychology

## **LEADERSHIP AND SERVICE**

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**Graduate Advisory Committee Quantitative Area Representative, Department of Psychology**  
**Faculty Meeting Representatives Quantitative Area Representative, Department of Psychology**

## **HONORS AND AWARDS**

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**Notre Dame Program for Interdisciplinary Educational Research Burns Fellow (2020-Present)**  
**The College of William and Mary Institutional Honors: Magna Cum Laude (2020)**  
**The College of William and Mary Dean's List (2016, 2018, 2019)**

## **TECHNICAL STRENGTHS**

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<b>Programming Languages</b>	R, Python, C++
<b>Markup Languages</b>	L <sup>A</sup> T <sub>E</sub> X, Rmarkdown, HTML
<b>System Administration</b>	Debian GNU/Linux
<b>Languages</b>	English, Chinese (Mandarin), Latin