

Jacob J. Coutts, PhD, MAS

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Academic Appointments

Lecturer, Social Data Science Major

August 2023-Present

Department of Psychology, The University of Maryland

Education

Ph.D., Quantitative Psychology

2018-2023

The Ohio State University

Dissertation: *Enhancing the specification, testing, and interpretation of conditional indirect effects*

Advisor: Jolynn Pek, PhD

Distinguished University Fellow

Master of Applied Statistics (M.A.S.)

2018-2020

The Ohio State University

M.S., Quantitative Psychology

2018-2020

The Ohio State University

Thesis: *Contrasting contrasts: An exploration of methods for comparing indirect effects in mediation models*

Advisor: Andrew F. Hayes, PhD

B.S., Psychological Sciences

2014-2018

Northern Arizona University

Minor: Communication Studies

University Honors, Department Honors

Publications

Coutts, J.J., Al-Kire, R.L., & Weidler, D.J. (2023). I can see (myself) clearly now: Exploring the mediating role of self-concept clarity in the association between self-compassion and indicators of well-being. *PLOS One*. <https://doi.org/10.1371/journal.pone.0286992>

Coutts, J.J., & Hayes, A.F. (2022). Questions of value, questions of magnitude: An exploration and application of methods for comparing indirect effects in multiple mediator models. *Behavior Research Methods*. <https://doi.org/10.3758/s13428-022-01988-0>

Coutts, J. (2022). R. In B. Frey (Ed.), *The SAGE encyclopedia of research design* (Vol. 1, pp. 1337-1339). SAGE Publications, Inc., <https://dx.doi.org/10.4135/9781071812082.n493>

Hayes, A.F. & **Coutts, J.J.** (2020). Use omega rather than Cronbach's alpha for estimating reliability. But... *Communication Methods and Measures*, 14(1), 1-24. doi.org/10.1080/19312458.2020.1718629

Coutts, J.J., Hayes, A.F., & Jiang, T. (2019). Easy statistical mediation analysis with distinguishable dyadic data. *Journal of Communication*, 69(6), 612-649. doi.org/10.1093/joc/jqz034

Work(s) in progress or under review (* indicates mentee)

Yarger, H., **Coutts, J.J.**, van der Veer, M., Holden, A., & Harrington, E. (under review for a special issue at the *Journal for the American Academy of Child and Adolescent Psychiatry*). Umbrella review and meta-analysis: Co-occurring medical and mental health conditions in autistic youth.

Erxleben, M., Lynch, T., & **Coutts, J.J.**, & Brinberg, M. (under review at the *Journal of Computer-Mediated Communication*). The effect of cooperative and competitive joint video game play on feelings of interpersonal attraction.

Coutts, J.J., & *Navaleza, I. (in prep). The alarming state of quantitative training in psychology.

Hayes, A.F., & **Coutts, J.J.** (in prep). Measurement error- and heteroskedasticity-robust analysis of covariance using errors-in-variables regression.

Hoisington-Shaw, K.J., **Coutts, J.J.**, & Pek, J. (revise and resubmit at *Multivariate Behavioral Research*). RePower: Exploring the utility of resampling methods in power calculations.

Funded Internal Grants

Dean's Research Initiative, University of Maryland: The (less than great) state of quantitative training in Psychology.

Amount: \$2,500

Role: PI

Teaching Experience

Average SEI Rating: 3.86/4

Courses Taught

- Data Science for the Social Sciences (BSOS233; **Redesigned**)
- Data Science for Psychology and Neuroscience Majors (PSYC417)
- Fundamentals of Survey and Data Science (SURV400; **Redesigned**)
- Mediation, Moderation, and Conditional Process Analysis (PSYC489K; **Developed**)
- Research Methods in Psychology (PSYC300)
- Introduction to Data Management (BSOS180; **Developed**)
- Independent Study (Teaching Experience in Psychology; PSYC478)
- Special Research Experiences in Psychology (PSYC479)
- Field Experience and Special Assignments in Honors (PSYC468H)
- Social Data Science: Pathways and Applications (BSOS188C; **Co-Developer only**)
- Introduction to Psychology (PSYC100)
- Teaching of Psychology Practicum (Graduate Level)

Course Development in Progress

- Introduction to Programming in R
- Fundamentals of Survey Design and Measurement
- Social Data Science Research Capstone

Other teaching experience

Course Coordinator – *Introduction to Psychology*

2020-2022

Teaching Apprentice – *Introductory Statistics in Psychology Lab*

2016-2017

Teaching Badges

- Exploring Assessments (UMD) **2025**
- Exploring Inclusive Teaching (UMD) **2025**
- Inclusive Teaching Reflections (UMD) **2025**
- DataCamp Teaching Ambassador (DataCamp) **2025**
- Active Learning Fundamentals (UMD) **2024**
- Anti-Racist Pedagogy (UMD) **2024**
- Boost Engagement with Adobe Creative Cloud (UMD) **2024**
- Decentering Whiteness (UMD) **2024**

- Digital Accessibility for Teaching and Learning (UMD)	2024
- Effective and Engaging Teamwork (UMD)	2024
- Formative Assessments (UMD)	2024
- Gamification (UMD)	2024
- Harnessing Artificial Intelligence for Teaching (UMD)	2024
- Identity, Power, and Privilege (UMD)	2024
- Metacognition: Teaching Students How to Learn (UMD)	2024
- TERP Teaching Essentials (UMD)	2024
- Transfer Champion (UMD)	2024
- Universal Design for Learning Basics (UMD)	2024

Teaching Certifications

- Inclusive Pedagogy Practitioner (UMD)	2025
- Suicide Prevention (T.E.R.P.S. for TERPS; UMD)	2025
- Active Learning Practitioner (UMD)	2024
- Course Design Practitioner (UMD)	2024
- Technology Enhanced Pedagogy Practitioner (UMD)	2024
- Universal Design for Learning Practitioner (UMD)	2024
- Robert M. Arkin Certificate in the Teaching of Psychology (OSU)	2023

Registered attendee at over 25 teaching workshops, trainings, presentations, and experiences.

Workshops

Instructor (2023). Introduction to mediation and conditional process analysis. *Invited* workshop presented at the Quantitative Family Collaborative speaker series. Online, 10 November 2023.

Instructor (2023). Introduction to moderation. *Invited* workshop presented at the Quantitative Family Collaborative speaker series. Online, 9 November 2023.

Instructor (2023). Introduction to mediation, moderation, and conditional process analysis. *Invited* workshop presented at the Annual Meeting of the Association for Psychological Science, Washington, D.C., 25 May 2023.

Co-Instructor (2022). Teaching in any context. Teaching as an independent instructor. Effective presentation skills. Workshops presented at the OSU Drake Institute Graduate Teaching Orientation, Columbus, OH, 15 August 2022.

Co-Instructor (2020). Mediation analysis with distinguishable dyadic data. *Invited* workshop at the 111th Annual Convention of the Eastern Communication Association, Baltimore, MD, 03 April 2020. (Conference canceled)

Course Assistant (2019). Statistical Mediation and Moderation.

Instructor: Andrew F. Hayes. Statistical Horizons, Chicago, IL, 15 July 2019 – 20 July 2019.

Co-Instructor (2019). Easy statistical mediation analysis with distinguishable dyadic data. *Invited* workshop presented at the 91st Annual Convention of the Midwestern Psychological Association, Chicago, IL, 13 April 2019.

Oral Presentations

Coutts, J.J. (2025). Maybe there is enough time: Strategies to improving your teaching and research workflow. Presented at the PTK Symposium, College Park, MD, 6 March 2025.

- Erxleben, M., Lynch, T., **Coutts, J.J.**, & Brinberg, M., (2024). The effect of cooperative and competitive joint video game play on feelings of interpersonal attraction. Presented at the 110th Annual Meeting of the National Communication Association, New Orleans, LA, 22 November 2024.
- Coutts, J.J.** (2024). Course correction: A call for more effective quantitative pedagogy. *Invited* talk presented at the Rocky Mountain Methodology Academy. Calgary, CA, 17 July 2024.
- Coutts, J.J.** (2023). The (institutional) power of (statistical) power. Presentation at the Diversity, Equity, and Inclusion Research Conference, Columbus, OH, 31 January 2023. (Third place winner.)
- Coutts, J.J.** (2022). (Dis)entangling moderation and mediation: How and when to study “when” and “how”. *Invited* presentation at the Quantitative Methodology Center, Columbus, OH, 21 October 2022.
- Coutts, J.J.**, & Pek, J. (2022). Power up: Exploring the use of the bootstrap in power analysis. Presentation at the Quantitative Methodology Center Conference, Columbus, OH, 01 June 2022.
- Coutts, J.J.** (2022). (Some) considerations for multiple mediator models. Presentation at the Department of Psychology Advanced Research Forum, Columbus, OH, 19 April 2022. (First place winner.)
- Coutts, J.J.** (2022). Contrasting contrasts: Reasons why and ways to compare indirect effects in multiple mediator models. Presentation at the Edward F. Hayes Graduate Research Forum, Columbus, OH, 04 March 2022. (Third place winner.)
- Coutts, J. J.**, & Weidler, D. J. (2018). Love, know, grow: Exploring the mediating role of self-concept clarity in the relationship between self-compassion and psychological well-being. Presentation at the 2018 Annual Convention of the Rocky Mountain Psychological Association, Denver, CO, 04 April 2018.
- Coutts, J.J.**, Al-Kire, R.L., & Weidler, D.J. (2017). Investigating the relationship between self-concept clarity and the benefits of self-compassion. Presentation at the 9th Annual National Science Foundation Research Experience for Undergraduates Conference, Flagstaff, AZ, 14 July 2017.
- Dunbar, N.D., Anderson, M.D., & **Coutts, J.J.** (2016). Promoting success: An 8-week online statistics lab for transfer students in the psychological sciences major. Presentation at the SBS Retreat for Learning with Technology, Flagstaff, AZ, 26 August 2016.

Poster Presentations (*indicates mentee)

- Yarger, H., **Coutts, J.J.**, van der Veer, M., Holden, A., & Harrington, E. (2025). Umbrella review and meta-analysis: Co-occurring medical and mental health conditions in autistic youth. Poster to be presented at the Annual Meeting of the American Public Health Association, Washington, DC, 02 November 2025.
- Coutts, J.J.**, & Hayes, A.F. (2025). Measurement error- and heteroskedasticity-robust analysis of covariance. Poster presented at the Annual Meeting of the Canadian Psychological Association, Newfoundland, CA, 13 June 2025.
- *Navaleza, I., **Coutts, J.J.**, *Lamb, K., *Younis, S., & *Goldstein, M. (2025). The (less than great) state of quantitative training in psychology. Poster presented at the Annual Meeting of the Association for Psychological Science, Washington, DC, 24 May 2025.
- *Lee, H., *Navaleza, I., & **Coutts, J.J.** (2025). Let’s take a ride: Predicting utilization of and positive experiences with public transportation. Poster presented at the Annual Meeting of the Association for Psychological Science, Washington, DC, 24 May 2025.

- *Lamb, K., *Navaleza, I., & **Coutts, J.J.** (2025). Now and later: A time-series analysis of programming language trends in data analytics job postings. Poster presented at the Undergraduate Research Day, College Park, MD, 23 April 2025.
- *Goldstein, M., *Navaleza, I., & **Coutts, J.J.** (2025). No small measure: Scale development for pediatric ADHD stigma. Poster presented at the Psychology Undergraduate Research Day, College Park, MD, 23 April 2025.
- *Ko, A., & **Coutts, J.J.** (2025). Optimism, but outdoors! A mixed-methods exploration of the relationship between time spent outdoors and optimism. Poster presented at the Psychology Undergraduate Research Day, College Park, MD, 23 April 2025.
- *Tejada, A., & **Coutts, J.J.** (2024). Get a job! The moderating effect of employment in the relationship between depression and life satisfaction. Poster presented at the Summer Undergraduate Research Conference. College Park, MD, 19 July 2024.
- *Lee, H., *Navaleza, I., & **Coutts, J.J.** (2024). Addressing the replication crisis: Can we close the gap with the bootstrap? Poster presented at the Summer Undergraduate Research Conference. College Park, MD, 19 July 2024.
- *Lamb, K., *Navaleza, I., & **Coutts, J.J.** (2024). From data to diagnosis: Machine learning advancements in autism screening. Poster presented at the Summer Undergraduate Research Conference. College Park, MD, 19 July 2024.
- *Younis, S., *Navaleza, I., & **Coutts, J.J.** (2024). Exploring non-motor symptoms in motor neuron disease. Poster presented at the Summer Undergraduate Research Conference. College Park, MD, 19 July 2024.
- *Aflaki, D., *Navaleza, I., & **Coutts, J.J.** (2024). Workplace wellness: Work stressors mediates the relationship between stress management programs and mental well-being. Poster presented at the Summer Undergraduate Research Conference. College Park, MD, 19 July 2024.
- Coutts, J.J.** (2024). Research-supported approaches to addressing DEI in a methods-oriented class. Poster presented at the Innovations in Teaching and Learning Conference, College Park, MD, 10 May 2024.
- *Navaleza, I., & **Coutts, J.J.** (2024). I'm worried I can't do it all: Examining self-efficacy as a mediator between burnout and anxiety. Poster presented at the Psychology Undergraduate Research Day, College Park, MD, 22 April 2024.
- *Erkan, C. & **Coutts, J.J.** (2024). Sleep and well-being in college students: A mixed methods investigation. Poster presented at the Psychology Undergraduate Research Day, College Park, MD, 22 April 2024.
- *Navaleza, I., & **Coutts, J.J.** (2024). Attention! Data Helps Diagnoses: A machine learning approach to predicting ADHD. Poster presented at the University of Maryland Research Fair, College Park, MD, 17 April 2024. (Outstanding research award winner.)
- Coutts, J.J.**, & Pek, J. (2022). BS Power: The efficacy of resampling methods in power analysis. Poster presented at the Annual Meeting of the Association for Psychological Science, Chicago, IL, 27 May 2022.
- Hoisington-Shaw, K.J., **Coutts, J.J.**, & Pek, J. (2020). Beyond fixed sample sizes: Sequential testing in psychology. Poster presented at the International Meeting of the Psychometric Society, College Park, MD, 14 July 2020. (Conference canceled)
- Hoisington-Shaw, K. J., **Coutts, J. J.**, & Pek, J. (2020). Sequential testing methods and the replication crisis. Poster presented at the Annual Meeting of the Association for Psychological Science, Chicago, IL, 22 May 2020. (Conference canceled)

- Coutts, J.J.**, Hayes, A.F., & Jiang, T. (2019). MEDYAD: An analytical tool for assessing mediation in distinguishable dyads. Poster presented at the Annual Meeting of the Association for Psychological Science, Washington, D.C., 24 May 2019.
- Coutts, J.J.**, & Walters, A.S. (2018). "It was the best of times, it was the worst of times": Having "The Talk" about sexuality with my parents. Poster presented at the Annual Meeting of the American Association of Sexuality Educators, Counselors, and Therapists, Denver, CO, 14 June 2018.
- Galat, K.I., **Coutts, J.J.**, & Donohue, D.K. (2018). Getting gritty with it: Exploring the effects of conscientiousness on self-control and grit. Poster presented at the 98th Annual Convention of the Western Psychological Association, Portland, OR, 25 April 2018.
- Bryson, M.M., **Coutts, J.J.**, & Donohue, D.K. (2018). "Forgive and for-grit": The moderating role of self-esteem in the relationship between self-compassion and happiness. Poster presented at the 98th Annual Convention of the Western Psychological Association, Portland, OR, 25 April 2018.
- Camacho, A., **Coutts, J.J.**, & Donohue, D.K. (2018). Get a grit: An analysis of grit as a mediator in the relationship between conscientiousness and academic achievement. Poster presented at the 98th Annual Convention of the Western Psychological Association, Portland, OR, 25 April 2018.
- Barger, S.D., **Coutts, J.J.**, Anderson, M.D., Dunbar, N.D., & Dmitrieva, N.O. (2018). Do grade incentives affect performance on a statistics assessment instrument? A randomized study in an introduction to statistics in psychology course. Poster presented at the Northern Arizona University Assessment Fair, Flagstaff, AZ, 11 April 2018.
- Coplen, C.C., **Coutts, J.J.**, & Donohue, D.K. (2018). Agree to disagree: Exploring the relationship between self-compassion and self-esteem. Poster presented at the 2018 Annual Convention of the Rocky Mountain Psychological Association, Denver, CO, 03 April 2018.
- Carballo, B., **Coutts, J.J.**, & Donohue, D.K. (2017). Individualism, collectivism, and the self: An exploration of compassion and self-compassion. Poster presented at the College of Social and Behavioral Sciences Fall 2017 Symposium, Flagstaff, AZ, 01 December 2017.
- Coutts, J.J.**, Al-Kire, R.L., & Weidler, D.J. (2017). "I know because I care": Exploring the mediating role of self-concept clarity in the relationship between self-compassion and its benefits. Poster presented at the Research Experiences for Undergraduates Symposium, Alexandria, VA, 23 October 2017.
- Coutts, J.J.**, Al-Kire, R.L., & Weidler, D.J. (2017). Familiarity breeds liking...or vice versa: Exploring the associations among self-concept clarity, self-compassion, and mental well-being. Poster presented at the 9th Annual National Science Foundation Research Experience for Undergraduates Conference, Flagstaff, AZ, 14 July 2017.
- Coutts, J.J.**, & Walters, A.S. (2017). "I had a great sex education, but it was terrible": Dimensionalizing what it means to come from a sex positive or sex negative household. Poster presented at the Annual Meeting of the American Association of Sexuality Educators, Counselors, and Therapists, Las Vegas, NV, 15 June 2017.
- Enriquez, D.F., **Coutts, J.J.**, Cashman, E.G., & Walters, A.S. (2017). Sexualities of Latino- and Caucasian-identifying men: Similarities and (some) differences. Poster presented at the Annual Meeting of the American Association of Sexuality Educators, Counselors, and Therapists, Las Vegas, NV, 15 June 2017.
- Bryson, M.M., Carballo, B., **Coutts, J.J.**, & Donohue, D.K. (2017). Associations of cultural values, gender, and motivation for achievement. Poster presented at Northern Arizona University's Annual Undergraduate Symposium, Flagstaff, AZ, 28 April 2017.

- Camacho, A., Wolcott, A., **Coutts, J.J.**, & Donohue, D.K. (2017). A generation motivated by the self. Poster presented at Northern Arizona University's Annual Undergraduate Symposium, Flagstaff, AZ, 28 April 2017.
- Coutts, J.J.**, Henderson, K.E., & Donohue, D.K. (2016). Themes of happiness, sadness, and higher education: Culture and self. Poster presented at the College of Social and Behavioral Sciences Fall 2016 Symposium, Flagstaff, AZ, 9 December 2016.

Colloquia

- Coutts, J.J.** (2023). A methodological perspective on mentorship, teaching, and research. Talk presented at The Quantitative Psychology Seminar, Columbus, OH, 06 March 2023.
- Coutts, J.J.** (2022). Should we be doing this? A deep dive into conditional indirect effects. Talk presented at The Quantitative Psychology Seminar, Columbus, OH, 24 October 2022.
- Coutts, J.J.** (2022). BS Power: Bootstrap or ...? Talk presented at The Quantitative Psychology Seminar, Columbus, OH, 28 March 2022.
- Coutts, J.J.** (2021). Inference for the difference: An exploration of methods for conducting contrasts in multiple mediator models. Talk presented at The Quantitative Psychology Seminar, Columbus, OH, 08 February 2021.
- Coutts, J.J.** (2020). It makes a difference: Methods for comparing indirect effects in multiple mediator models. Talk presented at The Quantitative Psychology Seminar, Columbus, OH, 20 April 2020.
- Hayes A.F. & **Coutts, J.J.** (2019). Use omega, not Cronbach's alpha for reliability. Talk presented at The Quantitative Psychology Seminar, Columbus, OH, 11 October 2019.
- Coutts, J.J.** (2019). SEM, OLS regression, and their application to mediation analysis in dyadic data. Talk presented at The Quantitative Psychology Seminar, Columbus, OH, 1 April 2019.

Software

- Coutts, J.J.**, Hayes, A.F., & Jiang, T. (2019). MEDYAD. An SPSS, SAS, and R macro/function for mediation analysis in distinguishable dyadic data. Available at jjcoutts.com.
- Hayes, A.F., & **Coutts, J.J.** (2019). OMEGA. An SPSS and SAS macro for obtaining McDonald's Omega and Cronbach's Alpha. Available at afhayes.com.

Leadership Positions

Advancing Professional Track Faculty Unit	2024-2025
Mentor: Psychology Peer Education and Enrichment Program	2022-2023
Cofounder: Diversity and Justice Committee in Introduction to Psychology	2020-2021
Vice President: Quantitative Psychology Graduate Student Association	2019-2021
Research Mentor: Undergraduate Research Mentorship Program	2017-2018
Undergraduate Representative: Academic Integrity Board	2016-2018
Lab Manager: <i>Culture and Academic Achievement Lab</i>	2016-2018

Statistical Programs and Languages

Expert: R, Python, Excel, GAUSS, SPSS
Proficient: Mplus, SAS, SQL

Honors and Awards

University of Maryland, College Park

Feller Faculty Fellow	2024-2025
Most Valuable Faculty (Students' Choice), Department of Psychology	2025
Outstanding Faculty Research Mentor, Department of Psychology	2024
<u>The Ohio State University</u>	
Department of Psychology Advanced Research Forum – First Place	2022
Department of Psychology Diversity, Equity, and Inclusion Conference – Third Place	2023
Distinguished University Fellowship (Two years)	2018, 2023
Edward F. Hayes Graduate Research Forum – Third Place	2022
Excellence in Leadership Award – Introduction to Psychology Program	2022
Graduate Associate Teaching Award (GATA) – University Level	2023
Interdisciplinary Research Award – Department Level	2023
Meritorious Teaching Award – Introduction to Psychology Program	2020
The College of Arts and Sciences Division of Social and Behavioral Sciences Scholarship	2019-2022
<u>Northern Arizona University</u>	
Dean's Travel Award	
Department of Psychological Sciences Travel Award	
Gold Axe Award	
Lumberjack Scholars Award	
Outstanding Junior of the Department of Psychological Sciences	
Outstanding Senior of the Department of Psychological Sciences	
Student Travel Award	
Summa Cum Laude	
The Conklin-Faust Student Scholarship Award	

Mentorship Experience

Hana Lee: Research Assistant	2024-Present
Molly Goldstein: Primary Chair of Honors Thesis	2024-Present
Eman Azam: Honors Thesis Committee	2025-Present
Jules Nefflen: Research Assistant	2025-Present
Brynn Saffer: Teaching Assistant	2025-Present
<i>Awards: Outstanding Rising Senior</i>	
Julia Cho: Teaching Assistant	2025-Present
Diana Warner: Teaching Assistant	2024-Present
<i>Current Position: Master's Student in I/O Psych at UMD</i>	
Aprille Tejada: Research Mentee	2024-Present
Orla Collins: Teaching Assistant	2024-Present
Sarina Li: Teaching Assistant, Research Assistant	2024-Present
Irene Navaleza: Research Assistant and Lab Manager	2023-2025
<i>Awards: Outstanding Accomplishments in Psychology; Outstanding Research Poster</i>	
<i>Current Position: PhD student in Quant Psych at University of Oklahoma</i>	
Katy Lamb: Research Assistant	2023-2025
<i>Awards: Outstanding Accomplishments in Psychology</i>	
<i>Current Position: Consultant at ZS</i>	
Cansu Erkan: Teaching Assistant	2023-2025
<i>Awards: Outstanding Accomplishments in Psychology</i>	
<i>Current Position: Research Assistant at UMD</i>	
Salma Younis: Research Assistant	2024-2025
<i>Awards: Outstanding Accomplishments in Psychology</i>	
<i>Current Position: Post Bacc at NIDA</i>	

All mentees receive trainings in scientific writing, reading journal articles (or Scholarship of Teaching and Learning; SoTL), training in Universal Design for Learnings (UDL), conducting literature reviews, programming in R and Python, machine learning and statistical tests, ethics, and research design (both primary and secondary research).

All mentees also receive professional development training, including online presence checks, edits to CVs/résumés, edits to cover letters/personal statements, and interview training.

All mentees are required to present an average of one poster per semester on a research project they are PI on.

Other Mentorship

Faculty mentor in the Data Curation Fellowship **Spring 2024, Spring 2025**

- Mentor a team of three students each fellowship through the process of finding, cleaning, joining, and documenting datasets to be used in social science/data-oriented classes.
- Lead training and orientation sessions.

Tier 3 Mentor, Quantitative Family Collaborative **2023-Present**

- Attend methods talks to network with other mentors and mentees.
- Deliver workshops on special methods topics to QFC enrollees.
- Answer questions from mentees (graduate students, early career faculty) interested in methodological expertise.

Work Experience

Exam Reader, Psychology **2025**

AP (EST)

- Scored over 100 exams for the annual AP reading.
- Completed trainings and met with team leaders to implement new scoring system.

Research Analyst, Contractor (DuoLingo) **2023 – 2024**

DuoLingo

- Used mixed effects models to evaluate performance of over 300 virtual exam proctors.
- Identified features important to English exam performance and presented findings to senior team.
- Created functions in R to clean data and simplify analyses.

Research Lead Technician (The Ohio State University) **2022 – 2023**

The Ohio State University

- Designed simulation studies to assess performance of statistical methods (e.g., power analyses).
- Developed new statistical graphics for presenting complex model results (e.g., interaction effects).
- Wrote two research reports and peer-reviewed manuscripts on findings (under review).

Intern, Business Insights and Analytics (NetJets) **Summer 2022**

NetJets

- Created two Python functions for analytics team to ease query validation and transition from SAS.
- Optimized SQL queries in Snowflake, reducing over 14 hours of daily server load.
- Forecasted 1,000s of future revenue-generating flights using predictive modeling.

Journal Reviewing

Behavior Research Methods
European Journal of Social Psychology
Journal of Gerontology (Psychology)
Journal of Happiness Studies

Journal of Homosexuality
 Mindfulness
 PLOS One
 Scientific Reports
 Personality and Social Psychology Bulletin
 Psychological Methods

Service

Poster Judge, Psychology Undergraduate Research Day	2025
Judge, INFO Challenge, UMD iSchool	2025
Judge, Tri County Science and Technology Fair	2025
Undergraduate Studies Committee, Department of Psychology	2023-Present
Poster Judge, Psychology Undergraduate Research Day	2024
Judge, Tri County Science and Technology Fair	2024
Invited Panelist, Quant Careers Panel, QUAD Squad, National Online Meeting	2023
Poster Abstract Reviewer, American Psychological Association Convention, Division 5	2023
Panelist, Graduate and Professional Student Recruitment, Office of Diversity and Inclusion	2022
Panelist, Quantitative Methods Information Session, National Online Meeting	2022
Judge, District Science Day, State of Ohio	2022
Judge, Buckeye Science and Engineering Fair, State of Ohio	2022
Panelist, Milestone Meetup, Department of Psychology	2022
Group Leader, DEI Research and Teaching Workshop, Department of Psychology	2021
Judge, Ohio District Science Day, State of Ohio	2021
Volunteer, CV and Statement of Purpose Workshop, Department of Psychology	2020
Volunteer, Graduate and Professional Student Recruitment, Office of Diversity and Inclusion	2020
Volunteer, Graduate School Application Review Day, Department of Psychology	2019
Panelist, A Note on Graduate School, Department of Psychology	2019
Volunteer, The Ohio Psychology Teaching Conference	2019
Judge, The American Statistical Association DataFest at OSU	2019
Thesis Judge, The Spring Undergraduate Research Festival	2019
Poster Judge, The Psychology Undergraduate Research Colloquium	2019
Volunteer, The Edward F. Hayes' Graduate Forum	2019
Panelist, How to Get into Graduate School, Department of Psychology	2018
Panelist, Applying to Graduate, Medical, or Law School Workshop	2018
Panelist, Graduate and Professional Student Recruitment, Office of Diversity and Inclusion	2018

Professional Affiliations

Association for Psychological Science (APS)
 American Statistical Association (ASA)
 Canadian Psychological Association (CPA)
 Institute of Mathematical Statistics (IMS)
 National Center for Faculty Development and Diversity
 Psi Chi Honor Society