Jacob J. **Coutts, PhD, MAS**

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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

Academic Appointments

Lecturer, Social Data Science Major   **August 2023-Present**
Department of Psychology, The University of Maryland

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

Coutts, J.J., & Pek, J. (in prep). Enhancing the specification, testing, and interpretation of conditional indirect effects.

Erxleben, M., Lynch, T., & **Coutts, J.J.** (in prep). Video games and interpersonal trust: A moderated indistinguishable dyadic mediation investigation.

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

Teaching Experience

Average SEI Rating: 4.81/5

Courses **Taught**
- Data Science for the Social Sciences
- Data Science for Psychology and Neuroscience Majors
- Fundamentals of Survey and Data Science
- Mediation, Moderation, and Conditional Process Analysis
- Research Methods in Psychology
- Introduction to Data Management
- Introduction to Psychology
- Teaching of Psychology Practicum (Graduate Level)

Courses **Developed**
- Introduction to Data Management
- Introduction to Programming in R
- Mediation, Moderation, and Conditional Process Analysis
- Social Data Science: Pathways and Applications

Other teaching experience

Course Coordinator – *Introduction to Psychology*	**2020-2022**
Teaching Apprentice – *Introductory Statistics in Psychology Lab*	**2016-2017**

Teaching Badges (from trainings)
- Active Learning Fundamentals
- Anti-Racist Pedagogy
- Boost Engagement with Adobe Creative Cloud
- Decentering Whiteness
- Digital Accessibility for Teaching and Learning
- Effective and Engaging Teamwork
- Formative Assessments
- Gamification
- Harnessing Artificial Intelligence for Teaching
- Identity, Power, and Privilege
- Metacognition: Teaching Students How to Learn
- TERP Teaching Essentials
- Transfer Champion
- Universal Design for Learning Basics

Teaching Certifications
- Active Learning Practitioner (UMD)
- Education Technology Practitioner (UMD)
- Inclusive Pedagogy Practitioner (UMD)
- Robert M. Arkin Certificate in the Teaching of Psychology (OSU)
- Universal Design for Learning Practitioner (UMD)

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

Erxleben, M., Lynch, T., Brinberg, M., & **Coutts, J.J.** (2024). The effect of cooperative and competitive joint video game play on feelings of interpersonal attraction. To be 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

Lee, H., Navaleza, I., & **Coutts, J.J.** (2024). Addressing the replication crisis: Can we close the gap with the bootstrap? Poster presented at the Student 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 Student 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 Student 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 Student 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 of 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.

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-Present**
Tier 3 Mentor: Quantitative Family Collaborative	**2023-Present**
Faculty Mentor: Data Curation Fellowship	**Spring 2024**
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: *Culture and Academic Achievement Lab*	**2016-2018**

Statistical Programs and Languages

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

Honors and Awards

University of Maryland, College Park
Department of Psychology 2024 Outstanding Faculty Research Mentor
Feller Faculty Fellow for Career Readiness

The Ohio State University
Department of Psychology 2022 Advanced Research Forum – First Place
Department of Psychology 2023 Diversity, Equity, and Inclusion Conference – Third Place
Distinguished University Fellowship (Two years)

Edward F. Hayes 2022 Graduate Research Forum – Third Place
Excellence in Leadership Award – Introduction to Psychology Program
Graduate Associate Teaching Award (GATA) – University Level
Interdisciplinary Research Award – Department Level
Meritorious Teaching Award – Introduction to Psychology Program
The College of Arts and Sciences Division of Social and Behavioral Sciences Scholarship

Northern Arizona University
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

Journal Reviewing

Behavior Research Methods
European Journal of Social Psychology
Journal of Gerontology (Psychology)
Journal of Happiness Studies
PLOS One
Scientific Reports
Personality and Social Psychology Bulletin

Service

Undergraduate Studies Committee, Department of Psychology, University of Maryland	**Au. 2024**
Poster Judge, The Psychology Undergraduate Research Day	**2024**
Judge, Tri County Science and Technology Fair	**2024**
Undergraduate Studies Committee, Department of Psychology, University of Maryland	**Sp. 2024**
Undergraduate Studies Committee, Department of Psychology, University of Maryland	**Au. 2023**
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

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