

# Jacob J. Coutts, PhD, MAS

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## Education

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- 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

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

## Publications

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- 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](https://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](https://doi.org/10.1093/joc/jqz034)

### Work(s) in progress or under review

- Coutts, J.J.**, Al-Kire, R.L., & Weidler, D.J. (under review at PLOS One). 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.
- Coutts, J.J.**, & Pek, J. (in prep). Enhancing the specification, testing, and interpretation of conditional indirect effects.

Hoisington-Shaw, K.J., **Coutts, J.J.**, & Pek, J. (in prep). RePower: Exploring the utility of resampling methods in power calculations.

## Teaching Experience

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**Average SEI Rating:** 4.83/5

**Course Instructor** – *Introduction to Psychology* (Undergraduate Level) **Autumn 2019-Spring 2022**

**Course Instructor** – *Teaching Psychology Practicum* (Graduate Level) **Summer 2021**

Other teaching experience

**Course Coordinator** – *Introduction to Psychology* (Undergraduate Level) **2020-2022**

**Teaching Apprentice** – *Introductory Statistics in Psychology Lab* (Undergraduate Level) **2016-2017**

## Workshops

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**Instructor** (2023). Introduction to mediation, moderation, and conditional process analysis. *Invited* workshop to be 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

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**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

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**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

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- 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

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**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 [jjc Coutts.com](http://jjc Coutts.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](http://afhayes.com).

## Leadership Positions

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Mentor – Psychology Peer Education and Enrichment Program	<b>2022-2023</b>
Cofounder – Diversity and Justice Committee in Introduction to Psychology	<b>2020-2021</b>
Vice President – Quantitative Psychology Graduate Student Association	<b>2019-2021</b>
Research Mentor – Undergraduate Research Mentorship Program	<b>2017-2018</b>
Undergraduate Representative – Academic Integrity Board	<b>2016-2018</b>
Lab Manger – <i>Culture and Academic Achievement Lab</i>	<b>2016-2018</b>

## Statistical Programs and Languages

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**Expert:** Excel, SPSS, GAUSS, R

**Proficient:** Mplus, Python, SAS, SQL

## Honors and Awards

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### *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

Robert M. Arkin Certificate in the Teaching of Psychology

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

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European Journal of Social Psychology

Journal of Gerontology (Psychology)

Journal of Happiness Studies

PLOS One

## Service

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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

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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