

# Jacob J. Coutts, MS, MAS

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## Education

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**Doctor of Philosophy, Quantitative Psychology (Ph.D.)** **2018-2023 (Expected)**

*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*

**Master of Science, Quantitative Psychology (M.S.)** **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

**Bachelor of Science, Psychological Sciences (B.S.)** **2014-2018**

*Northern Arizona University*

Minor: Communication Studies

University Honors: Gold Axe, Summa Cum Laude

Department Honors

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

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

**Coutts, J.J.**, Weidler, D.J., Al-Kire, R.L. (under review). 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.

## 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

**Guest Lecturer** – *Mediation and Moderation Analysis* (Graduate Level) **Autumn 2022**

**Certificate** – *Robert M. Arkin Certificate in the Teaching of Psychology* **Spring 2022**

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

**Guest Lecturer** – *Mediation and Moderation Analysis* (Graduate Level) **Spring 2019**

**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.

**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.** (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-Present</b>
Vice President – Quantitative Psychology Graduate Student Association	<b>2019-2021</b>
Cofounder – Diversity and Justice Committee in Introduction to Psychology	<b>2020-2021</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, IBM SPSS Statistics (including MATRIX), GAUSS, R

**Proficient:** Mplus, Python, SAS (including PROC IML), SQL

## Honors and Awards

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### The Ohio State University

Department of Psychology 2022 Advanced Research Forum – First Place

Distinguished University Fellowship (Two years)

Edward F. Hayes 2022 Graduate Research Forum – Third Place (Social and Behavioral Sciences)

Excellence in Leadership Award – PSYCH 1100

Meritorious Teaching Award – PSYCH 1100

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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Journal of Gerontology (Psychology)

Journal of Happiness Studies

PLOS One

## Service

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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	<b>2022</b>
Panelist, Milestone Meetup, Department of Psychology	<b>2022</b>
Group Leader, DEI Research and Teaching Workshop, Department of Psychology	<b>2021</b>
Judge, Ohio District Science Day, State of Ohio	<b>2021</b>
Volunteer, CV and Statement of Purpose Workshop, Department of Psychology	<b>2020</b>
Volunteer, Graduate and Professional Student Recruitment, Office of Diversity and Inclusion	<b>2020</b>
Volunteer, Graduate School Application Review Day, Department of Psychology	<b>2019</b>
Panelist, A Note on Graduate School, Department of Psychology	<b>2019</b>
Volunteer, The Ohio Psychology Teaching Conference	<b>2019</b>
Judge, The American Statistical Association DataFest at OSU	<b>2019</b>
Thesis Judge, The Spring Undergraduate Research Festival	<b>2019</b>
Poster Judge, The Psychology Undergraduate Research Colloquium	<b>2019</b>
Volunteer, The Edward F. Hayes' Graduate Forum	<b>2019</b>
Panelist, How to Get into Graduate School, Department of Psychology	<b>2018</b>
Panelist, Applying to Graduate, Medical, or Law School Workshop	<b>2018</b>
Panelist, Graduate and Professional Student Recruitment, Office of Diversity and Inclusion	<b>2018</b>

### **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  
 Society for Personality and Social Psychology (SPSP)