# Amanda Kay Montoya

## Associate Professor of Quantitative Psychology

University of California - Los Angeles Department of Psychology 502 Portola Plaza, Pritzker Hall 4530

502 FOLIOIA FIAZA, FIIIZKEI IIAII 4

Los Angeles, CA 90095

Email: akmontoya@psych.ucla.edu

Phone: (310)794-5069 Website: akmontoya.com

## **IDENTIFIERS**

ORCID 0000-0001-9316-8184

ResearcherID AAR-4439-2021

Open Science Framework https://osf.io/pzq3t/

## ACADEMIC APPOINTMENTS

Associate Professor, Department of Psychology, UCLA

July 2023 - Current

Assistant Professor, Department of Psychology, UCLA

November 2018 - July 2023

Acting Assistant Professor, Department of Psychology, UCLA

July 2018 - November 2018

#### **EDUCATION**

PhD, Psychology, Quantitative

The Ohio State University, Columbus, OH

2018

Dissertation: "Conditional Process Analysis in Two-Instance Repeated-Measures Designs"

Adviser: Andrew F. Hayes, PhD

M.S., Statistics

The Ohio State University, Columbus, OH

2016

M.A., Psychology, Quantitative

The Ohio State University, Columbus, OH

2016

Thesis: "Extending the Johnson-Neyman Procedure to Categorical Independent Variables:

Mathematical Derivations and Computational Tools"

Adviser: Andrew F. Hayes, PhD

B.S., Psychology, Minor: Mathematics University of Washington, Seattle, WA

2013

Cum Laude, Departmental Honors

Thesis: "Increasing Interest in Computer Science through Group Work: A Goal Congruity Approach"

Adviser: Sapna Cheryan, PhD & Allison Master, PhD

## RESEARCH INTERESTS

My research focuses on improving the ability of psychology researchers to answer their questions of interest using sound statistical methods and by developing easy-to-use tools to encourage researchers to use the most advanced methods available. I have focused my research on mediation, moderation, conditional process

models, structural equation modeling, and measurement including factor analysis and item response theory. I am also interested in improving our ability to conduct meta-science by developing statistical methods in meta-analysis, and understanding the impact of research practices on our ability to create replicable science. Additionally, I have previous experience and hope to continue my research focused on understanding and ameliorating issues of inequity in education, particularly for women in science, technology, engineering, and mathematics.

#### **PUBLICATIONS**

Preregistered, Registered Report, Open Data, Open Access, Preprint (PsyArXiv), Preprint (EdArXiv), Preprint (ArXiv), Open Science Framework Page, Github Page

## Want to include badges and other indicators on your CV? Learn how here!

Block, J.<sup>†</sup>, Reise, S., Widaman, K., **Montoya, A. K.**, Loring, D., Glass Umfleet, L., Bauer, R., Gullett, J., Wolff, B., Drane, D., Enriquez, K., & Bilder, R. (2025). Model Based Person Fit Statistics Applied to the Wechsler Adult Intelligence Scale IV (WAIS-IV). *Educational and Psychological Measurement*, DOI: 10.1177/00131644251339444

Montoya, A. K.. (Online First). Conditional Process Analysis for Two-Instance Repeated-Measures Designs. *Psychological Methods*, DOI:10.1037/met0000715

Montoya, A. K. (in press). Growing Up in Science. (Ed. Weiji Ma). Princeton University Press.

Cha, L.<sup>†</sup>, **Montoya, A. K.**, Schetter, C. D., & Sumner, J. A. (2025). Neighborhood disorder and social cohesion: A longitudinal investigation of links with maternal cardiometabolic risk one year postpartum. Journal of psychosomatic research, 189, 112012. DOI: 10.1016/j.jpsychores.2024.112012

Ray, L. A., Grodin, E. N., Baskerville, W.-A., Donato, S., Cruz, A.<sup>†</sup>, **Montoya, A. K.** (2025). Gabapentin for the treatment of alcohol use disorder: A machine learning approach. *Alcohol and Alcoholism*, 60(3), DOI: 10.1093/alcalc/agaf010

Montoya, A. K. (2024). Combining Statistical and Causal Mediation Analysis. *Handbook of Research Methods in Social and Personality Psychology* (H. T. Reis, T West, C. M. Judd, Ed.) Cambridge University Press.

Ramos, G., Woller, M.<sup>‡</sup>, Questch, L., Girard, E., Barnett, M., **Montoya, A. K.**, Le, K., Reyes, Y., Chavira, D., Villodas, M., & Lau, A. (2024). Trajectories of change in parent-child interaction therapy outcomes in Latinx families: Implications for cultural adaptation, *Journal of Consulting and Clinical Psychology*, 53, 1–15, DOI: 10.1080/15374416.2024.2395272

Hunger, J. M., **Montoya, A. K.**, Edrosolan, K., Tan, J., Hubbard, A. S.†, Tomiyama, A. J. (2024). Ecological Momentary Assessment of Weight Stigma and Eating Behavior in Everyday Life. *Annals of Behavioral Medicine*, 58(6), 457 - 462. DOI: 10.1093/abm/kaae012

Luijken, K., Lohmann, A., Alter, U., Claramunt Gonzalez, J., Clouth, F., Fossum, J. L.<sup>†</sup>, Hesen, L., Huizing, A., Ketelaar, J., Montoya, A. K., Nab, L., Nijman, R. C. C., Penning de Vries, B. B. L., Tibbe, T. D.<sup>†</sup>, Wang, Y. A., & Groenwold, R. H. H. (2024). Replicability of simulation studies for the investigation of statistical methods: The RepliSims project. Royal Society of Open Science. DOI: 10.1098/rsos.231003

Silverstein, P., Elman, C., Montoya, A. K., McGillivray, B., Pennington, C. R., Harrison, C. H., Steltenpohl,

- C. N., Röer, J. P., Corker, K. S., Charron, L. M., Elsherif, M., Malicki, M., Hayes-Harb, R., Grinschgl, S., Neal, T., Evans, T. R., Karhulahti, V-M., Krenzer, W. L. D., Belaus, A., Moreau, D., Burin, D. I., Chin, E., Plomp, E., Mayo-Wilson, E., Lyle, J., Adler, J. M., Bottesini, J. M., Lawson, K. A., Schmidt, K., Reneau, K., Vilhuber, L., Waltman, L. Gernsbacher, M. A., Plonski, P. E, Ghai, S., Grant, S., Christian, T.-M., Ngiam, W., & Syed, M. (2024). A guide for social science journal editors on easing into open science. Research Integrity and Peer Review, 9(2). DOI: 10.1186/s41073-023-00141-5
- Giner-Sorolla, R., **Montoya, A. K.**, Carpenter, T.\*, Lewis, Jr. N. A.\*, Aberson, C. L.\*, Bostyn, D. H.\*, Conrique, B. G.\*, Ng, B. W.\*, Reifman, A.\*, Schoemann, A. M.\*, Soderberg, C.\* (2024). Power to detect what? Considerations for planning and evaluating sample size. *Personality and Social Psychology Review*, 9(2). DOI: 10.1177/10888683241228328
- Grodin, E. N., Montoya, A. K., Cruz, A.†, Donato, S., Baskerville, W.-A., Ray, L. A. (2024). Identifying Treatment Responders to Varenicline for Alcohol Use Disorder Using Two Machine Learning Approaches. Clinical Psychological Science, 12(1), 133 146. DOI: https://doi.org/10.1177/21677026231169922.
- Huang, Y.<sup>†</sup>, Tibbe, T. D.<sup>†</sup>, Tang, A.<sup>†</sup>, & Montoya, A. K.. (2023). Lasso and Group Lasso with Categorical Predictors: Impact of Coding Strategy on Variable Selection and Prediction. *Journal of Behavioral Data Science*, 3(2), 15-42. DOI: 10.35566/jbds/v3n2/montoya
- Ramos, G.<sup>‡</sup>, **Montoya, A. K.**, Smith, D., Rith-Najarian, L., & Chavira, D. (2023). Digital intervention barriers scale (DIBS-7): Development, evaluation, and preliminary validation. *JMIR Formative Research*, 7, e40509, DOI: 10.2196/40509.
- Schaerer, M., du Plessis, C., Nguyen, M., van Aert, R. C. M., Toikhin, L., Lakens, D., Clemente, E. G., Pfeiffer, T., Dreber, A., Johannesson, J., Clark, C. J., **Gender Audits Forecasting Collaboration**, Uhlmann, E. L. (2023). On the trajectory of discrimination: A meta-analysis and forecasting survey capturing 44 years of field experiments on gender and hiring decisions. *Organizational Behavior and Human Decision Processes*, 179, 104280. DOI: 10.1016/j.obhdp.2023.104280.
- Siy, J. O., Germano, A., Vianna, L., Azpeitia, J., Yan, S., **Montoya, A. K.**, & Cheryan, S. (2023). Does the follow-your-passions ideology cause greater academic and occupational gender disparities than other cultural ideologies? *Journal of Personality and Social Psychology*. DOI: 10.1037/pspi0000421

#### Media Coverage

- Cheryan, S. & Mortejo, T. A. The Most Common Graduation Advice Tends to Backfire, New York Times. Link
- Tawa, J., & Montoya, A. K. (2023). Racial embodiment in virtual environments for facilitating students' understanding of racism. *Technology, Mind, and Behavior*, 4(1), Special Collection: Technology in a Time of Social Distancing. DOI: 10.1037/tmb00000024 

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- Green, R.<sup>‡</sup>, Lin, J., **Montoya, A. K.**, Bello, M. S., Grodin, E. N., Ryu, H., Ho, D., Leventhal, A. M., and Ray, L. A. (2022). Characteristics Associated with Treatment Seeking for Smoking Cessation Among Heavy-Drinking Research Participants. *Frontiers in Psychiatry*, Section: *Addictive Disorders*, 13. DOI: 10.3389/fpsyt.2022.951364
- Tibbe, T. D.<sup>†</sup> & Montoya, A. K. (2022). Correcting the bias correction for the bootstrap confidence interval in mediation analysis. Frontiers in Psychology, 13. DOI: 10.3389/fpsyg.2022.810258 6 6 6

- Meredith, L. R.<sup>‡</sup>, Grodin, E. N., **Montoya, A.K.**, Miranda Jr., R., Squeglia, L. M., Towns, B., Evans, C., Ray, L. A. (2022). The Effect of Neuroimmune Modulation on Subjective Response to Alcohol in the Natural Environment. *Alcoholism: Clinical and Experimental Research*, 46(5), 876-890. DOI: 10.1111/acer.14821
- Montoya, A. K. (2022). Selecting a Within- or Between-Subject Design for Mediation: Validity, Causality, and Statistical Power. *Multivariate Behavioral Research*, 58(3). DOI: 10.1080/00273171.2022.2077287
- Ramos, G.<sup>‡</sup>, Aguilera, A., **Montoya, A. K.**, Lau, A., Wen, Y., Torres, V., Chavira, D. (2022). App-Based Mindfulness for People of Color Who Experience Race-Related Stress: Protocol for a Randomized Controlled Trial. *JMIR Protocols*, 11(4), e35196. DOI: 10.2196/35196.
- Miocevic, M., Moeyart, M., Mayer, A., & Montoya, A. K. (2022). Causal Mediation Analysis in Single Case Experimental Designs (SCEDs): Introduction to the Special Issue, *Evaluation & the Health Professions*, DOI: 10.1177/0163278721107319
- Fossum, J. L.<sup>†</sup>, & **Montoya**, **A. K.** (2022). Heterogeneity. In B. Frey (Ed.), *The SAGE Encyclopedia of Research Design*. (Vol. 1, p. 656) Thousand Oaks, CA: SAGE. DOI: 10.4135/9781071812082.n245
- Andre, Q., van Osselaer, S., Janiszewski, C., **Montoya, A. K.**, Hilgard, J., Charlton, A., Evangelidis, I., & Price, J. (2021). "Methodological Advances in Consumer Research", in NA Advances in Consumer Research Volume 49, eds. Tonya Williams Bradford, Anat Keinan, and Matthew Matthew Thomson, Duluth, MN: Association for Consumer Research, Pages: 821-826.
- Green, R.<sup>‡</sup>, **Montoya, A. K.**, Ray, L. A. (2021). The Relationship Between Drinking and Smoking in a Clinical Trial for Smoking Cessation and Drinking Reduction. *Experimental and Clinical Psychopharmacology*. DOI: 10.1037/pha0000536
- Leathem, L. D.<sup>‡</sup>, Currin, D. L., **Montoya, A. K.**, & Karlsgodt, K. H. (2021). Socioemotional Mechanisms of Loneliness in Subclinical Psychosis. *Schizophrenia Research*, 238, 145 151. DOI: 10.1016/j.schres.2021.10.002
- Ramos, G.<sup>‡</sup>, Delgadillo, D., Fossum, J. L.<sup>†</sup>, **Montoya, A. K.**, Thamrin, H., Rapp, A., Escovar, E., & Chavira, D. (2021). Discrimination and Internalizing Disorders in Rural Latinx Adolescents: An Ecological Model of Etiology. *Children and Youth Services Review*, 130, 106250.
- Meredith, L. R. <sup>‡</sup>, Grodin, E. N. <sup>‡</sup>, Karno, M. P., **Montoya, A. K.**, MacKillop, J., Lim, A. C., & Ray, L. A. (2021). Preliminary Study of Alcohol Problem Severity and Response to Brief Intervention. *Addiction Science & Clinical Practice*, 16(54). DOI: 10.1186/s13722-021-00262-6
- Montoya, A. K., Krenzer, W. D. L., & Fossum, J. L.<sup>†</sup> (2021). Opening the Door to Registered Reports: Census of Journals Publishing Registered Reports. *Collabra: Psychology*, 7(1): 24404. DOI: 10.1525/collabra.24404
- Cleveland, S., Reed, K., Thomas, J., Ajijola, O. A., Ebrahimi, R., Hsiai, R., Lazarov, A., **Montoya, A. K.**, Neria, Y., Shimbo, D., Wolitzky-Taylor, K., & Sumner, J. A. (2021). Key dimensions of posttraumatic stress disorder and endothelial dysfunction: A mechanism-focused cohort study. *BMJ Open*, 11, e043060. DOI: 10.1136/bmjopen-2020-043060
- Grodin, E. N.<sup>‡</sup>, **Montoya, A. K.**, Bujarski, S., & Ray, L. A. (2021). Modeling motivation for alcohol in humans using traditional and machine learning approaches. *Addiction Biology*, 26(2), e12949. [Link]  $\square$
- Montoya, A. K., & Edwards, M. C. (2021). The Poor Fit of Model Fit for Selecting Number of Factors in Exploratory Factor Analysis for Scale Evaluation. *Educational and Psychological Measurement*, 81(3), 413 440. [Link].

- Montoya, A. K. & Jeon, M. (2019). MIMIC models for testing uniform and non-uniform differential item functioning as moderated mediation models. *Applied Psychological Measurement*, 44(2), 118 136.
- Montoya, A. K. (2019). Moderation analysis in two-instance repeated-measures designs: Probing methods and multiple moderator models. *Behavior Research Methods*, 51,(1), 61 82.
- Tawa, J., & Montoya, A. K. (2018). Construals of self and group: How racial nominalism can promote adaptive intergroup outcomes for interdependent selves. *Group Processes & Intergroup Relations*, 22(7), 1002-1020.
- Montoya, A. K. (2018). Probing moderation analysis in two-instance repeated-measures designs. *Multi-variate Behavioral Research*, 53(1), 140 141 [Abstract].
- Dohle, S., & Montoya, A. K. (2017). The dark side of fluency: Fluent names increase drug dosing. Journal of Experimental Psychology: Applied, 23(3), 231 - 239. DOI: https://doi.org/10.1037/xap0000131
- Stojek, M. K., Montoya, A. K., Drescher, C., Newberry, A., Sultan, Z., Williams, C. F., Pollock, N. K., & Davis, C. L. (2017). Fitness, sleep-disordered breathing, symptoms of depression, and cognition in inactive overweight children: Mediation models. *Public Health Reports*, 132 (Supplement 2), 65S 73S.
- Hayes, A. F., **Montoya, A. K.**, & Rockwood, N. J. (2017). The analysis of mechanisms and their contingencies: PROCESS versus structural equation modeling. *Australasian Marketing Journal*, 25(1), 76-81.
- Montoya, A. K., & Hayes, A. F. (2017). Two-condition within-participant statistical mediation analysis: A path-analytic framework. *Psychological Methods*, 22(1), 6-27.
- Cheryan, S., Ziegler, S., & Montoya, A. K., Jiang, L. (2017). Why have women entered some STEM fields more than others? *Psychological Bulletin*, 143(1), 1-35.
- Hayes, A. F., & Montoya, A. K. (2017). A tutorial on testing, visualizing, and probing an interaction involving a multicategorical variable in linear regression. *Communication Methods and Measures*, 11(1), 1-30.

## Work In Progress

- Montoya, A. K., Tibbe, T. D.<sup>†</sup>, & Krenzer, W. L. D. (In-Principle Acceptance). A Registered Report on Registered Reports: Impact of Publishing Registered Reports on Questionable and Open Research Practices. Royal Society Open Science.
- Guassi Moreira, J. F., Block, J.<sup>†</sup>, Cruz, A.<sup>†</sup>, Enders, C. K., & Montoya, A. K. A Preregistered Replication and Extension of Maas & Hox (2005). (In Principle Acceptance). British Journal of Mathematical and Statistical Psychology
- Fossum, J. L.<sup>†</sup>, **Montoya, A. K.** & Anderson, S. F. (In-Principle Acceptance). How does model over-and under-specification impact statistical power and type 1 error rate in moderated mediation analysis? A Registered Report, *Peer Community in Registered Reports* 💸 🕟
- Montoya, A. K., Cleveland, S., Lamarque-Navarette, K.†, Brown, K., & Sumner, J. A. (under review). Using propensity score matching for recruitment in sequential enrollment multigroup cohort studies.

Montoya, A. K., Hayes, A. F., & Gomez, N.† (under review). Mediation Analysis in the Two Condition Pretest-Posttest Design: A Treatment-as-Moderator Conditional Process Approach.

Montoya, A. K., Charlton, A., Krebfeld-Schwab, A., Price, J., Hilgard, J. (under review). Noise in the process: An assessment of the evidential value of mediation effects in marketing journals.

Ramos, G., Montoya, A. K., Aguilera, A., Lau, A., Anders, C., Wen, Y., & Chavira, D. (under review) A digital mental health intervention for racially and ethnically minoritized individuals who experience discrimination: A randomized controlled trial.

Bozkurt, S., Gligor, D. M., & **Montoya, A. K.** (under review). Regret, Refunds, and Repurchase: The Psychological Impact of Post-Purchase Compensation Following Retailer Price Drops.

Cleveland, S.‡, Carroll, J. E., **Montoya, A. K.**, Cha, L., Stiles, L., & Sumner, J. A. (under review). Early Life Adversity and Mitochondrial Dysfunction: Comparing Cumulative Risk and Dimensional Models of Adversity.

Block, J. M.<sup>†</sup>, Bjälkebring, P., Loran, Z.<sup>†</sup>, Smith, S. M., Ťápal, A., & **Montoya**, **A. K.** (in prep). Individuals with Lower Numeracy show more Extreme and Mid-point Responding: An IRTree Based Approach.

Montoya, A. K., Yu, G. O.†, & Tawa, J. (invited) Mini-Many Analysts: Using Registered Reports to Learn about Analytical Flexibility. *Teaching of Psychology* 

† Student or postdoc author (Primary mentor) ‡ Student or postdoc author (Non-primary mentor)

## White Papers

Fossum, J. L.<sup>†</sup>, & **Montoya**, **A. K.** (2022). RepliSims - replication report for Fritz & MacKinnon (2007). Zenodo. DOI: 10.5281/zenodo.5975520

Tibbe, T. D.<sup>†</sup> & **Montoya, A. K.**. (2022). RepliSims - replication report MacKinnon, Lockwood and Williams (2004). Zenodo. DOI: 10.5281/zenodo.6460344

Aberson, C. L.\*, Bostyn, D. H.\*, Carpenter, T.\*, Conrique, B. G.\*, Giner-Sorolla, R.\*, Lewis, Jr. N. A.\*, **Montoya, A. K.**\*, Ng, B. W.\*, Reifman, A.\*, Schoemann, A. M.\*, & Soderberg, C.\* (2019) Techniques and solutions for sample size determination in psychology: A critical review.

Montoya, A. K., Master, A., & Cheryan, S. (2013). Increasing interest in computer science through group work: A goal congruity approach. (Senior Thesis). University of Washington, Seattle, WA.

 $\star$  Authors appear alphabetically, reflecting their equal contributions

## **BOOKS**

Montoya, A. K., Hayes, A. F., Preacher, K. J., & Page-Gould, E. (under contract). Statistical mediation analysis: Within-subjects designs. New York: The Guilford Press.

### **PRESENTATIONS**

### **Invited Presentations**

Montoya, A. K. (2025, Jul). Preregistration with Complex Statistical Models. Presented at Rocky Mountain Methodology Academy.

Montoya, A. K. (2024, Oct). Using Propensity Score Matching for Sequential Recruitment in prospective Cohort Studies. Presented at Arizona State University, Department of Psychology.

Montoya, A. K. (2024, Nov). Integrating Diversity and Inclusion Themes to Undergraduate Statistics Education. Presented at the University of Maryland.

Montoya, A. K. (2024, Nov). Improving Mediation Analysis Practice in Marketing Research. Presented at the John Chambers College of Business & Economics, Department of Marketing, West Virginia University.

Montoya, A. K. (2024, Jan). Getting Started with Registered Reports. Presented at the Quantitative Family Collective, Virtual.

Montoya, A. K. (2023, Sept). Growing Up in Science: Inclusive Teaching with the General Linear Model. Presented at the Quantitative, Qualitative, and Psychometric Methods (QQPM) Seminar, University of Nebraska, Virtual.

Montoya, A. K. (2023, Sept). Combining Statistical and Causal Mediation Analysis. Presented at the Princeton University Seminar in Advanced Research Methods, Princeton, NJ.

Montoya, A. K. (2023, May). Mediation, Moderation, and Conditional Process Analysis in Two-Instance Repeated-Measures Designs. Presented at the CAIDe Lab Meeting, University of Oregon, Virtual.

Montoya, A. K. (2023, April). Incorporating Meta-Science in the development of mediation and moderation analysis. Presented at the University of Southern California, Los Angeles, CA.

Montoya, A. K. (2023, Jan). Incorporating Meta-Science in the development of mediation and moderation analysis. Presented at The Ohio State University, Columbus, OH.

Logan, J., Montoya, A. K., & Strauss, C. (2022, Nov) Panel on teaching for diversity in quantitative courses. Presented at the Joint Quantitative Brownbag, Virtual.

Dawson, J., Edwards, J., **Montoya, A. K.**, & Preacher, K. (2022, Oct). Topic Interest Groups - Ask the Experts: Moderation and Mediation Analysis. Consortium for the Advancement of Research methods and Analysis, Texas Tech University, Virtual.

Montoya, A. K., Huang, Y.†, Tibbe, T. D.†, & Tang, A.† (2022, Sept.). When small choice have big impact: Handling categorical predictors in lasso & group lasso. Presented at the University of Virginia, Quant Lunch, Virtual.

Montoya, A. K. & McCoach, D. B. (2022, Feb). Registered Reports for Education Research. Presented at the Virtual Unconference on Open Scholarship in Education Research, Virtual.

Montoya, A. K. (2021, Sept). Mediation Analysis for Between- and Within-Subject Experimental Designs. Presented at the University of Manitoba, Psychology Colloquia Series, Winnipeg, Manitoba, Canada.

Montoya, A. K. (2021, May). Moderated Mediation Analysis for Repeated-Measures Designs. Presented at Mediation Days, Montreal, Quebec, Canada.

Montoya, A. K. (2021, Apr). Focusing on the Effect of Time: A Conditional Process Analysis Approach to Analyzing 2 (Within) X 2 (Between) Designs. Presented at the University of California - Santa Barbara, Quantitative Methods in Social Sciences Seminar, Santa Barbara, CA.

Montoya, A. K. (2021, Apr). Understanding When and For Whom: Moderation Analysis for Two-Instance Repeated-Measures Designs. Presented at the Princeton University Seminar in Advanced Research Methods, Princeton, NJ.

Montoya, A. K. (2021, March). Mediation and Moderation in Repeated-Measures Designs: Recent Developments and Future Directions. Presented at Logan Lab Meeting, Quantitative Research, Evaluation, and Measurement in the College of Education and Human Ecology, Ohio State University, Columbus, OH.

Montoya, A. K. & Rambo-Hernandez, K. (2021, Feb). Deep Dive into Open Scholarship: Preregistration and Registered Reports. Presented at the Virtual Unconference on Open Scholarship in Education Research, Virtual.

Montoya, A. K. (2021, Jan.). Mediation and Moderation in Repeated-Measures Designs: Recent Developments and Future Directions. Presented at the University of Colorado Boulder, Graduate Professional Development Seminar in Social Psychology, Department of Psychology and Neuroscience, Boulder, CO.

Montoya, A. K. (2020, Nov). Quantitative Psychology and Meta-Science: Two Sides of the Same Coin, or Two Ships Passing in the Night? Presented at Arizona State University, Tempe, AZ.

Montoya, A. K. (2020, Aug). Quantitative Psychology and Meta-Science: Two Sides of the Same Coin, or Two Ships Passing in the Night? Presented at the University of North Carolina - Chapel Hill, Chapel Hill, NC.

Montoya, A. K. (2020, Apr) The More Things Change the More They Stay The Same: Model Equivalence in Repeated-Measures Mediation. Presented at University of California - Davis, Davis, CA. (Presentation Cancelled)

Montoya, A. K. (2019, Aug.) Understanding rigor and replicability: What can and cannot be gleaned from meta-analysis? Presented at the UC Consortium on the Developmental Science of Adolescence, Los Angeles, CA.

## Peer-Reviewed Presentations

Krenzer, W. L. D., Montoya, A. K., & Block, J. (2025). Creating a Sustainable System for Identifying Registered Reports. Presented at the Society for Improving Psychological Science, Budapest, Hungary.

Steinberg, H., Blank, I. A., & Montoya, A. K. (2025). Noisy Channel Processing: How we rationally decode handwriting. Presented at the Undergraduate Research & Creativity Showcase in Los Angeles, CA.

Yu, G. O., Blank, I. A., Montoya, A. K., (2025). Uncovering the Cognitive Mechanisms That Support Naturalistic Reading: A Data-Driven Approach. Presented at Undergraduate Research Creativity Showcase in Los Angeles, CA.

Steinberg, H., Blank, I. A., & Montoya, A. K. (2025). Noisy Channel Processing: How we rationally decode handwriting. Presented at the UCLA Psychology Undergraduate Research Conference in Los Angeles, CA.

Block, J.†, Montoya, A. K. & Krenzer, W. D. L. (2025) Developing a Measure for Assessing the Propensity of Early Researchers to Commit Questionable Research Practices. Presented at the Association for Practical

and Professional Ethics, Norfolk, VA.

Montoya, A. K. (Dec 2024). Can Registered Reports Improve Transparency in Natural Sciences? Session Name: Streamlining and improving publication transparency in the natural sciences. Presented at the American Geophysical Union Annual Meeting, Washington, DC.

Ding, J.<sup>†</sup>, Conner, J., Krenzer, W. D. L., & Montoya, A. K. (Nov 2024). What Keeps Researchers from Publishing Registered Reports? Presented at the Association for Interdisciplinary Meta-Research and Open Science, Canberra, Australia.

Krenzer, W. D. L. & Montoya. A. K. (June 2024). How Researcher "Really" Feel about Registered Reports. Talk presented at Society for Improving Psychological Science Annual Meeting.

Litson, K., Montoya, A. K., Wang, Y. (June 2024). Comparing approaches to examine multiple binary moderators in latent variable models. Talk presented at Modern Modeling Methods.

Montoya, A. K. (June 2024). Registered Reports for Simulation Studies. Talk presented at Modern Modeling Methods.

Tibbe, T. D., & Montoya. A. K. (June 2024). Replicating Simulation Research: A Case Study. Talk presented at Modern Modeling Methods.

Ramos, G., Chen, B., Owoyemi, P., Reyes, Y., Wen, Y., Montoya, A., Aguilera, A., Lau, A., & Chavira, D. (2024, June). Using human support to promote engagement in an internet intervention for racially/ethnically minoritized individuals: The Mind-Us program. In S. Schueller (Chair), Centering the experiences of racially and ethnically minoritized groups in the design and improvement of internet interventions. Presentation at the International Society for Research on Internet Interventions 12th Annual Meeting, Limerick, IRL.

Montoya, A. K. (May 2024, Chair), Methodological Innovations in Multilevel Modeling. Symposium presented at the Association for Psychological Science Annual Meeting, San Francisco, CA.

Mena, S. & Montoya, A. K. (May 2024) Sample size planning for complex multilevel models. Talk presented at the Association for Psychological Science Annual Meeting, San Francisco, CA.

Guassi-Moreira, J. & Montoya, A. K. (May 2024) Reconsidering Reporting Standards for Multilevel Modeling in Social Psychology. Talk presented at the Association for Psychological Science Annual Meeting, San Francisco, CA.

Montoya, A. K. (2024, March). Registered Reports: A New Publication Process. Talk Presented at the Year of Open Science Culminating Conference hosted by the Center for Open Science in collaboration with NASA. Virtual.

Krenzer, W. L. D., & Montoya, A. K. (2024, March). Increasing Adoption and Implementation for Registered Reports in Funding Agencies to Improve Public Trust in Science. Talk presented at the Association for Practical and Professional Ethics Annual Meeting, Cincinnati, OH.

Ramos, G.<sup>‡</sup>, **Montoya, A. K.**, Aguilera, A., Lau, A., Wen, Y., Chavira, D. (2023, November). Reductions in stress, anxiety, and depression in a randomized controlled trial of a self-guided, app-based mindfulness meditation for people of color who experience discrimination. In A. Silverman & G. Ramos (Chairs), Leveraging digital mental health interventions to increase access to care among marginalized racial-ethnic groups. Presentation at the Association for Behavioral and Cognitive Therapies (ABCT) 57th Annual Convention, Seattle, WA.

Ramos, G.‡, Montoya, A. K., Aguilera, A., Lau, A., Wen, Y., Chavira, D. (2023, November). Can you

- culturally adapt an already-developed app? Post-hoc strategies and implementation outcomes in the Mind-Us program. In J. Doung & A. Timmons (Chairs). Breaking down barriers: Bridging evidence-based digital mental health care and culturally inclusive technology. Presentation at the Association for Behavioral and Cognitive Therapies (ABCT) 57th Annual Convention, Seattle, WA.
- Ramos, G.<sup>‡</sup>, **Montoya, A. K.**, Aguilera, A., Lau, A., Wen, Y., Chavira, D. (2023, November). Making mindfulness-based interventions accessible for people of color via technology: The Mind-Us randomized controlled trial. E. Susman (Chair), Increasing accessibility of mindfulness and self-compassion interventions: Adaptations and innovations. Presentation at the Association for Behavioral and Cognitive Therapies (ABCT) 57th Annual Convention, Seattle, WA.
- Ramos, G.<sup>‡</sup>, **Montoya**, **A. K.**, Aguilera, A., Lau, A., Wen, Y., Chavira, D. (2023, August). Engagement strategies in self-guided, app-based mindfulness meditation for youth of color who experience discrimination. In A. Ortega C. Stiles-Shield (Chairs), Overcoming suboptimal digital health engagement: A priority for pediatric digital health research. Presentation at the American Psychological Association (APA) 2023 Annual Convention, Washington, D.C.
- Montoya, A. K. (2023, Aug). Inclusive Teaching with the General Linear Model. Session Title: Incorporating EDI Perspectives into Quantitative Methodology Teaching, Practice, and Research. Presentation at the American Psychological Association (APA) 2023 Annual Convention, Washington, D.C.
- Krenzer, W. L. D., Rhodes, D, Tibbe, T. Montoya, A. K. (2023, June). Preparing for a Bright Future with Registered Reports: A Hackathon to learn from and prepare undergraduates about this publishing mechanism. Hackathon at the annual Society for the Improvement of Psychological Science conference, Padua, Italy.
- Flake, J., McCoach, B., Manapat, P., Howard, A., & Montoya, A. K. (2023, June). Transparency, Reproducibility, and Replicability of Modeling Methods: Problems and Solutions. Panel presented at the Modern Modeling Methods, University of Connecticut, Mansfield, CT.
- Montoya, A. K. (2023, June). Causal Language in Evaluating Moderation/Interaction Hypotheses. Presented at the Modern Modeling Methods, University of Connecticut, Mansfield, CT.
- Ramos, G.<sup>‡</sup>, **Montoya, A. K.**, Aguilera, A., Lau, A., Wen, Y., Chavira, D. (2023, May). Effectiveness of a self-guided, app-based mindfulness meditation program for people of color who experience discrimination. Presentation at the American Society of Hispanic Psychiatry Annual Convention, San Francisco, CA.
- Krenzer, W. D. L., Tibbe, T. D.<sup>†</sup>, **Montoya, A. K.** (2023, March.) Demystifying Registered Reports for the Advancement of both the Mentor and Mentee. Presented at the 32nd Annual APPE International Conference, Portland, OR.\*
- Montoya, A. K., Krenzer, W. D. L., Tibbe, T. D.<sup>†</sup>, Fossum, J. L.<sup>†</sup> (2023, Feb.) Getting started with registered reports. Presented at the Society for Personality and Social Psychology, Virtual.\*
- Montoya, A. K. (2022, Dec). Using the General Linear Model to Teach about Race in Research. Presented at the PsychTERMS Virtual Conference, Virtual.
- Charlton, A., Montoya, A. K., Price, J., & Hilgard, J. (2022, Nov). Noise in the process: an assessment of the evidential value of mediation effects in marketing journals. Presented at the Society for Judgement and Decision Making Annual Meeting, San Diego, CA.
- Blankson, A. N., Montoya, A. K., Flake, J. K., Garrison, S. M., Logan, J., Madison, M., Pek, J., Rhemtulla, M., Stapleton, L., & Sweet, T. (2022, Oct). QUAD Squad. Presented at the Society for Multivariate Experimental Psychology, Monterey Bay, CA.

- Fossum, J. L.<sup>†</sup> & **Montoya, A. K.** (2022, July). Power analysis methods for mediation and moderated mediation models. Presented at the International Meeting of the Psychometric Society, Bologna, Italy.
- Krenzer, W. D. L., Tibbe, T. D.<sup>†</sup>, Fossum, J. L.<sup>†</sup>, & **Montoya, A. K.** (2022, June). Discussion on registered reports: A new way to publish academic research. Presented at the Annual Meeting of the Society for the Improvement of Psychological Science, Victoria, BC, Canada.
- Tibbe, T. D.<sup>†</sup>, Krenzer, W. D. L., **Montoya, A. K.**. (2022, February). The Role of Registered Reports in Improving Responsible Research. Presented at Association for Practical and Professional Ethics Research Integrity Scholars and Educators Consortium Fourth Annual Pre-Conference Symposium, Cincinatti, OH.
- Charlton, A., Montoya, A. K., Price, J., & Hilgard, J. (2021). Noise in the Process: A Meta-Analysis of Mediation Effects in Marketing Journals. Presented at the Annual Meeting of the Association for Consumer Research, Seattle, WA.
- Makel, M. C., Montoya, A. K., Cook, B., & Smith, K. (2021, Apr.) Open Access and Preprints. Session: Actions for Increasing the Credibility of Educational Research. Chair: Peters, S. J. Presented at the Annual Meeting for the American Educational Research Association, San Francisco, CA.
- Montoya, A. K. (2021, Feb). New Insights in Power and Power Analysis in Mediation Models. *Symposium Chair*. Presented at the Society for Personality and Social Psychology Annual Meeting, Virtual.
- Fossum, J. L.<sup>†</sup> & **Montoya**, **A. K.** (2021, Feb). Comparison of power analysis methods for mediation. Presented at the Society for Personality and Social Psychology Annual Meeting, Virtual.
- Krenzer, W. D. L., Tibbe, T. D. †, & Montoya, A. K. (2020, Dec.). Registered Reports: What we know and understand, what you would like to know. Presented at the Annual Meeting of the Association for Interdisciplinary Meta-Research and Open Science, Virtual.
- Montoya, A. K. (2020, May) The More Things Change the More They Stay The Same: Model Equivalence in Repeated-Measures Mediation. Presented at the Annual Meeting for the Association for Psychological Science, Chicago, IL.(Conference Cancelled)
- Montoya, A. K., Makel, M. C., Cook, B., & Smith, K. (2020, Apr.) Open Access and Preprints. Session: Actions for Increasing the Credibility of Educational Research. Chair: Peters, S. J. Presented at the Annual Meeting for the American Educational Research Association, San Francisco, CA. (Conference Cancelled) [Link]
- Giner-Sorolla, R., Lewis, N., **Montoya, A. K.**, Carpenter, T. (2020, Feb) Power Analysis: Insights and Techniques from the 2019 Working Group, Society for Personality and Social Psychology Annual Meeting, New Orleans, LA.
- Montoya, A. K. (2019, Oct.) Focusing on the Effect of Time: A Conditional Process Analysis Approach to Analyzing 2 (Within) X 2 (Between) Designs. Presented at the Society for Experimental Social Psychology, Toronto, Canada.
- Montoya, A. K. (Chair) (2019, Apr.) Adopting Open Science at Any Career Stage: A Panel Discussion. Presented at the Annual Meeting of the Western Psychological Association, Pasadena, CA.
- Montoya, A. K., & Krenzer, W. (2019, Feb.) Registered Reports: Understanding Where and How to Publish (Presentation and Mini-hack). Presented at the Annual Meeting of the Society for Personality and Social Psychology: Society for the Improvement of Psychological Sciences Preconference, Portland, OR.
- Montoya, A. K., & Jeon, M. J. (2018, Apr). MIMIC models for uniform and non-uniform DIF as mediation

and moderated mediation models. Presented at the 2018 AERA Annual Meeting, New York, NY.

Montoya, A. K., & Edwards, M. C. (2017, Apr). Cautions on using model fit to choose number of factors in EFA. Presented at the 2017 Annual Meeting of the National Council on Measurement in Education, San Antonio, TX.

Montoya, A. K. (2016, Mar). Two condition within-subjects mediation: Power and type I error for methods of inference for the indirect effect. Presented at the Annual Meeting for the Southeastern Psychological Association, New Orleans, LA.

Montoya, A. K. (2016, Jan). Multiple mediator models for two-condition within-subjects designs: Estimating and comparing indirect effects. Presented at the Annual Meeting of the Society for Personality and Social Psychology, San Diego, CA.

Stojek, M. M. K., Drescher, C., **Montoya, A. K.**, Newberry, A., Sultan, Z., Williams, C. F., Pollock, N. K., & Davis, C. L. (2015, Nov). Sleep-disordered breathing, depression symptoms, and cognition in overweight inactive children. Presented at Obesity Week 2015, Los Angeles, CA.

Hayes, A. F. & Montoya, A. K. (2015, May). Hacking PROCESS: Some advanced and undocumented applications in mediation and moderation. Presented at the 27th Annual Convention for the Association for Psychological Science, New York, NY.

Montoya, A. K., Master, A., & Cheryan, S. (2013, July). Working together to belong: Increasing women's feelings of fit in STEM through group work. Presented at the Annual Pacific Conference on Prejudice & Culture, Bellingham, WA.

Montoya, A. K., Master, A., & Cheryan, S. (2013, May). Using group work to recruit women to STEM: A goal congruity approach. Presented at the Annual UW Undergraduate Research Symposium, Seattle, WA.

Montoya, A. K., Master, A., & Cheryan, S. (2013, May). Using communal interactions to recruit women into STEM: A goal congruity perspective. Presented at the UCLA Psychology Undergraduate Research Conference, Los Angeles, CA.

Montoya, A. K., Ni, W., Pena, A., & Stillwell, E. (2013, Mar). Debunking stereotypes: Research on why the image of computer science matters. Presented at the Women in Science and Engineering Conference, Seattle, WA.

## Colloquia

Montoya, A. K. (2024, Dec). Using Propensity Score Matching for Sequential Recruitment in prospective Cohort Studies. Presented at Sumner Lab Meeting, Department of Psychology, UCLA.

Montoya, A. K. (2024, Apr). Getting Started with Registered Reports. Presented at the Social Psychology Brownbag, UCLA, Los Angeles, CA.

Montoya, A. K., Charlton, A., Price, J., & Hilgard, J. (2021, March). Mediation analysis in consumer behavior: Evaluating evidence for questionable research practices and publication bias. Behavioral Decision Making Meeting, UCLA, Los Angeles, CA.

Montoya, A. K. (2021, Mar). Quantitative Psychology and Meta-Science: Two Sides of the Same Coin, or Two Ships Passing in the Night? Presented at the Quantitative Psychology Seminar, UCLA, Los Angeles, CA.

- Montoya, A. K. (2020, Feb). An Introduction to Power Analysis for Mediation. Behavioral Decision Making Meeting, UCLA, Los Angeles, CA.
- Montoya, A. K., & Huang, Y.<sup>†</sup> (2019, Apr). Understanding performance of LASSO regression with categorical predictors: Variable selection and predictive ability. Quantitative Psychology Seminar, UCLA, Los Angeles, CA.
- Montoya, A. K., Smith, S. M., Bjälkebring, P., & Tapal, A. (2018, Dec). Numeracy-Related Responding on Numeric Self-Report Scales. Behavioral Decision Making Meeting, UCLA, Los Angeles, CA.
- Montoya, A. K. (2017, Oct). The Society of Multivariate Experimental Psychology: A graduate student perspective. Quantitative Psychology Seminar, Ohio State University, Columbus, OH.
- Montoya, A. K. (2017, Mar). Estimating and probing interactions in two instance repeated-measures designs. Methodological Colloquium Series, College of Education and Human Ecology, Ohio State University, Columbus, OH.
- Montoya, A. K. (2016, Sep). Extending the Johnson-Neyman procedure to categorical independent variables. Quantitative Psychology Seminar, Ohio State University, Columbus, OH.
- Montoya, A. K., & Hayes, A. F. (2016, Mar). Two condition within-subjects mediation: Power and type I error for methods of inference for the indirect effect. Quantitative Psychology Seminar, Ohio State University, Columbus, OH.
- Montoya, A. K. & Hayes, A. F. (2015, Apr). Within-subjects mediation: A path-analytic approach. Quantitative Psychology Seminar, Ohio State University, Columbus, OH.

# **Poster Presentations**

- Yu, G. O., Blank, I. A., & Montoya, A. K. (2025) Uncovering the Cognitive Mechanisms That Support Naturalistic Reading: A Data-Driven Approach. Presented at the Southern California Undergraduate Linguistics Conference in Los Angeles, CA.
- Yu, G. O., Blank, I. A., & Montoya, A. K., (2025). Uncovering the Cognitive Mechanisms That Support Naturalistic Reading: A Data-Driven Approach. Presented at UCLA Psi Chi Research Conference in Los Angeles, CA.
- Steinberg, H., Blank, I. A., & Montoya, A. K. (2025). Noisy Channel Processing: How we rationally decode handwriting. Presented at the UCLA Psi Chi Research Conference in Los Angeles, CA
- Yu, G. O., Blank, I. A., & Montoya, A. K., (2025). Uncovering the Cognitive Mechanisms That Support Naturalistic Reading: A Data-Driven Approach. Presented at the UCLA Psychology Undergraduate Research Conference in Los Angeles, CA.
- Tanyildiz, D., Block, J., Krenzer, W. L. D., & Montoya, A. K. (2025) Exploring Ethical Decision Making: A Vignette-Based Scale to Measure Susceptibility to Questionable Research Practices in Early Career Researchers. Presented at the UCLA Psychology Undergraduate Research Conference, Los Angeles, CA.
- Yu, G. O., Blank, I. A., & Montoya, A. K., (2025). Uncovering the Cognitive Mechanisms That Support Naturalistic Reading: A Data-Driven Approach. Presented at Western Psychological Association Convention in Las Vegas, NV.

- Tanyildiz, D., Block, J., Krenzer, W. L. D., & Montoya, A. K. (2025) Exploring Ethical Decision Making: A Vignette-Based Scale to Measure Susceptibility to Questionable Research Practices in Early Career Researchers. Presented at the Western Psychological Association, Las Vegas, NV.
- Conner, J., Ding, J., Krenzer, W. L. D., & Montoya, A. K., (2025). What Keeps Researchers from Publishing Registered Reports? An Exploratory Analysis on Researcher's Views and Concerns. Presented at Western Psychological Association Convention in Las Vegas, NV
- Yu, G.<sup>†</sup>, Blank, I. A., & Montoya, A. K. (2025) Uncovering the Cognitive Mechanisms That Support Naturalistic Reading: A Data-Driven Approach. Poster presented at Western Psychological Association, Las Vegas, NV.
- Tanyildiz, D.<sup>†</sup>, Block, J.<sup>†</sup>, Krenzer, W. D. L., & Montoya, A. K. (2025) Exploring Ethical Decision-Making: A Vignette-Based Scale to Measure Susceptibility to Questionable Research Practices in Early Career Researchers. Poster presented at Western Psychological Association, Las Vegas, NV.
- Connor, J.<sup>†</sup>, Ding, J.<sup>†</sup>, Krenzer, W. D. L., & Montoya, A. K. (2025) What keeps researchers from publishing registered reports? An exploratory analysis on researcher's views and concerns. Poster presented at Western Psychological Association, Las Vegas, NV.
- Wang, Y.<sup>†</sup> & Montoya, A. K. (June 2024). When to Standardize Your Data? A Comparison of Percentile Bootstrap Confidence Interval for Standardized Indirect Effects. Poster presented at Modern Modeling Methods, Storrs, CT.
- Yu, G.<sup>†</sup>, Tibbe, T. D.<sup>†</sup>, Krenzer, W. D. L., & Montoya, A. K. (May 2024). Comparing the Number of Submissions to Publish for Registered Reports vs. Traditional Papers. Poster presented at UCLA Undergraduate Research Week, Los Angeles, CA.
- Conner, J.<sup>†</sup>, Ding, J.<sup>†</sup>, Krenzer, W. L. D., & Montoya, A. K. (May 2024). What Keeps Researchers from Publishing Registered Reports? An Exploratory Analysis on Researcher's Views and Concerns. Poster presented at UCLA Psychology Undergraduate Research Conference, Los Angeles, CA.
- Yang, J.<sup>†</sup> & Montoya, A. K. (May 2024). Comparison of Mediation Testing Models in Two-Condition Pretest-Posttest Design. Poster presented at UCLA Psychology Undergraduate Research Conference, Los Angeles, CA.
- Tibbe, T. D.<sup>†</sup>, Enders, C. E., & Montoya, A. K. (May 2024). Inference on the Indirect Effect in the Presence of Missing Data: The Bias-Corrected Bootstrap Confidence Interval Results in Inflated Type I Error Rates When Implemented with Multiple Imputation Procedures. Poster presented at Association for Psychological Science, San Francisco, CA.
- Wang, Y. & Montoya, A. K. (April 2024). When to Standardize Your Data? A Comparison of Percentile Bootstrap Confidence Interval for Standardized Indirect Effects. Poster presented at Western Psychological Association.
- Tibbe, T. D. & Montoya, A. K. (April 2024). A Comparison of Missing Data Methods for Qualitative Interaction Trees. Poster presented at Western Psychological Association.
- Fossum, J. L. & Montoya, A. K. (April 2024). Impacts of Model Misspecification on Statistical Power in Moderated Mediation. Poster presented at Western Psychological Association.
- Block, J.<sup>†</sup>, **Montoya, A. K.**, Loran, Z.<sup>†</sup>, Smith, S., Tapal, A., and Bjalkebring, P. (2023, Nov). Using Item Response Theory Trees to Estimate the Relationship Between Response Style and Numeracy. Presented at Psychonomics Society Annual Meeting, San Francisco, CA.

- Tang, A.<sup>†</sup>, Tibbe, T. D.<sup>†</sup>, **Montoya, A. K.** (2023, April). Lasso with Categorical Predictors: Impact of Coding Strategy on Variable Selection and Prediction. Presented at the Annual Meeting of the Western Psychological Association, Pasadena, CA
- Block, J.<sup>†</sup> & Montoya, A. K. (2023, April). A Comparison of Multidimensional Item Response Theory Methods for Response Styles. Presented at the Annual Meeting of the Western Psychological Association, Pasadena, CA.
- Yang, N.<sup>†</sup>, Fossum, J. L.<sup>†</sup>, **Montoya, A. K.** (2023, April). Extending Mediation Analysis to Withinsubjects Data with Dichotomous Outcomes. Presented at the Annual Meeting of the Western Psychological Association, Pasadena, CA.
- Fossum, J. L.<sup>†</sup>, **Montoya, A. K.** (2023, April). Choosing Simulation Study Parameters from Current Practices. Presented at the Annual Meeting of the Western Psychological Association, Pasadena, CA.
- Tibbe, T. D.<sup>†</sup>, **Montoya, A. K.** (2023, April). Assessing the Bias-Corrected Bootstrap in Missing Data Methods for the Indirect Effect. Presented at the Annual Meeting of the Western Psychological Association, Pasadena, CA.
- Cruz, A. M.<sup>†</sup>, **Montoya, A. K.** (2023, April). Within-Subjects Mediation Analysis with a Multicategorical Independent Variable. Presented at the Annual Meeting of the Western Psychological Association, Pasadena, CA
- Krenzer, W. D. L., Tibbe, T. D., **Montoya, A. K.** (2023 March). Demystifying Registered Reports for the Advancement of both the Mentor and Mentee. Presented at the 32nd Annual APPE International Conference.\*
- Block, J. & Montoya, A. K. (2022, November). Modeling Numeracy's Effect on Likert Data; An IR-Tree Based Approach. Presented at the Society for Judgement and Decision Making Annual Meeting, San Diego, CA.
- Cruz, A. M.<sup>†</sup>, **Montoya, A. K.**, Grodin, E. N., Donato, S., Baskerville, W.-A., & Ray, L. A. (2022, June). A Case Study with RCT of Varenicline Using Two Machine Learning Approaches. Presented at the Symposium for Data Science and Statistics, Pittsburgh, PA.
- Meredith, L. R.<sup>‡</sup>, Grodin, E. N., **Montoya, A.K.**, Miranda, R., Squeglia, L. M., Ray, L. A (2022, June). The effect of ibudilast on daily naturalistic reporting of subjective response to alcohol. Presented at the Research Society on Alcoholism Convention, Orlando, FL.
- Grodin, E. N., **Montoya, A. K.**, Cruz, A. M.<sup>†</sup>, Donato, S., Baskerville, W.-A., & Ray, L. A. (2022, June). Identifying likely treatment responders to Varenicline for Alcohol Use Disorders Using a Tree-Based Qualitative Interaction Analysis. Presented at the 45th Annual Research Society on Alcoholism Scientific Meeting, Orlando, FL.
- Tibbe, T. D.<sup>†</sup>, **Montoya, A. K.**, & Enders, C. (2022, May). Elevated type I error rates of the bias-corrected bootstrap in missing data methods for the indirect effect. Presented at the Annual Meeting of the Association for Psychological Science, Chicago, IL.
- Fossum, J. L.<sup>†</sup> & Montoya, A. K. (2022, May). Modeling latent interactions using the product indicator approach: An applied example in R. Presented at the Annual Meeting of the Association for Psychological Science, Chicago, IL.
- Garcia Ruiz, E.<sup>†</sup>, Tibbe, T. D.<sup>†</sup> & **Montoya, A. K.**, (2022, May). Registered reports: The adoption of registered reports over time. Presented at the UCLA Undergraduate Research Week, Los Angeles, CA.

- Yang, N.<sup>†</sup>, Fossum, J. L.<sup>†</sup> & **Montoya, A. K.**, (2022, May). Extending mediation analysis to withinsubjects data with dichotomous outcomes. Presented at UCLA Undergraduate Research Week, Los Angeles, CA.
- Garcia Ruiz, E.<sup>†</sup>, Tibbe, T. D.<sup>†</sup> & **Montoya, A. K.**, (2022, May). Registered reports: The adoption of registered reports over time. Presented at the 31st Annual UCLA Psychology Undergraduate Research Conference, Los Angeles, CA.
- Yang, N.<sup>†</sup>, Fossum, J. L.<sup>†</sup> & **Montoya, A. K.**, (2022, May). Extending mediation analysis to withinsubjects data with dichotomous outcomes. Presented at the 31st Annual UCLA Psychology Undergraduate Research Conference, Los Angeles, CA.
- Block, J.<sup>†</sup>, Loran, Z.<sup>†</sup> & **Montoya, A. K.**, (2022, May). Using IR-trees to model numeracy's effect upon Likert scales. Presented at the 31st Annual UCLA Psychology Undergraduate Research Conference, Los Angeles, CA.
- Cruz, A. M.<sup>†</sup>, & **Montoya, A. K.**(2022, April). Within-subject mediation analysis with more than two conditions: An applied example. Presented at the Annual Meeting of the Western Psychological Association, Portland, OR.
- Lamarque-Navarrete, K.<sup>†</sup> Montoya, A. K. (2021, October). Propensity Score Matching Concurrently with Participant Recruitment: Examining Cardiovascular Health and PTSD. Presented at the Women in Statistics and Data Science Conference, Virtual.
- Tibbe, T. D.<sup>†</sup>, **Montoya, A. K.**, Krenzer, W. D. L. (2021, May). A Registered Report on Registered Reports: Investigating Potential Benefits of and Barriers to Adopting Registered Reports. Presented at the Annual Convention of the Association for Psychological Science, Virtual.
- Loran, Z.<sup>†</sup>, & **Montoya**, **A. K.** (2021, June). Methods for Detecting Numeracy's Effect on Trait-Unrelated Response Styles. Presented at the Symposium on Data Science and Statistics, Virtual.
- Lamarque-Navarrete, K.<sup>†</sup> & Montoya, A. K., (2021, May). Reducing Carryover Effects in Within-Subjects Design. Presented at the UCLA Undergraduate Research Week, Los Angeles, CA. 3
- Loran, Z.<sup>†</sup> & Montoya, A. K., (2021, May). Methods for detecting numeracy's effect on trait-unrelated reponse styles. Presented at the UCLA Undergraduate Research Week, Los Angeles, CA.
- Yang, N.<sup>†</sup>, Fossum, J. L.<sup>†</sup> & **Montoya, A. K.**, (2021, May). Moderated mediation analysis across different research areas. Presented at the UCLA Undergraduate Research Week, Los Angeles, CA.
- Lamarque-Navarrete, K.† & Montoya, A. K., (2021, May). Propensity Score Matching Concurrently with Participant Recruitment: Examining Cardiovascular Health and PTSD. Presented at the 30th Annual UCLA Psychology Undergraduate Research Conference, Los Angeles, CA.
- Fossum, J. L.<sup>†</sup>, **Montoya, A. K.** (2021, April). Current Practices and Sample Sizes Used for Moderated Mediation. Presented at the Annual Meeting of the Western Psychological Association, Virtual.
- Tibbe, T. D.<sup>†</sup>, **Montoya, A. K.** (2021, April). Correcting the Bias Correction for the Bootstrap in Mediation Analysis. Presented at the Annual Meeting of the Western Psychological Association, Virtual.
- Polad, V. † & Montoya, A. K., (2020, November). Reducing Carryover Effects in Within-Subjects Design. Presented at the Electronic Undergraduate Statistics Research Conference. [Link to Video]
- Polad, V. † & Montoya, A. K., (2020, May). Reducing Carryover Effects in Within-Subjects Design.

Polad, V. † & Montoya, A. K., (2020, May). Reducing Carryover Effects in Within-Subjects Design. Presented at the UCLA Undergraduate Research Week, Los Angeles, CA.

Loran, Z.<sup>†</sup> & Montoya, A. K., (2020, May). Numeracy Effects on Numeric Self-Report Scale Responses. Presented at the UCLA Undergraduate Research Week, Los Angeles, CA.

Leathem, L. D.<sup>‡</sup>, Currin, D. L., Montoya, A. K., & Karlsgodt, K. H. (2020, Apr). Social Cognitive and Neural Mechanisms of Loneliness in Subclinical Psychosis. Presented at the 2020 Society of Biological Psychiatry Virtual Symposium.

Montoya, A. K.. (2020, Feb.) Moderated Mediation for Integrating Between X Within-Subject Designs. Presented at the Annual Meeting of the Society for Personality and Social Psychology, New Orleans, LA.

Krenzer, W. D. L., & Montoya, A. K.. (2020, Feb.) Registered Reports: An Unbiased Future to Psychological Research. Presented at the Annual Meeting of the Society for Personality and Social Psychology, New Orleans, LA.

Grodin, E. N., **Montoya, A. K.**, Bujarski, S., & Ray, L. A. (2019). A Machine Learning Approach to Modeling Motivation for Alcohol in Humans. Presented at the 58th Annual Meeting of the American College of Neuropsychopharmacology, Orlando, FL.

Loran, Z.<sup>†</sup>, **Montoya, A. K.**, & Krenzer, W. D. L. (2019, May). Registered Report Early Adoption: Census of Journal Policies and Open Science Practices. Presented at the UCLA Undergraduate Research Week, Los Angeles, CA.

Huang, Y.<sup>†</sup>, & **Montoya, A. K.** (2019, May). Comparing Performance of Lasso, Group Lasso, and Linear Regression with Categorical Predictors. Presented at the 28th Annual UCLA Psychology Undergraduate Research Conference, Los Angeles, CA.

Huang, Y.<sup>†</sup>, & Montoya, A. K. (2019, May). Comparing Performance of Lasso, Group Lasso, and Linear Regression with Categorical Predictors. Presented at the Symposium on Data Science and Statistics, Bellevue, WA.

Montoya, A. K., Smith, S. M., Bjälkebring, P., & Tapal, A. (2018, Nov). Numeracy-Related Responding on Numeric Self-Report Scales. Presented at the Annual Meeting for the Society of Judgment and Decision Making, New Orleans, LA.

Silberstein, C.<sup>†</sup>, & **Montoya**, **A. K.** (2018, May). Penalized regression within the game cribbage: A machine learning application. Presented at the Symposium on Data Science and Statistics, Reston, VA.

Montoya, A. K. (2018, Mar). Statistical power in mediation analysis for repeated measures designs. Presented at the Annual Meeting of the Society for Personality and Social Psychology, Atlanta, GA.

Montoya, A. K. (2017, Oct). Probing moderation analysis in two-instance repeated-measures designs. Presented at the Society for Multivariate Experimental Psychology, Minneapolis, MN.

Montoya, A. K. (2017, May). Simple slopes and Johnson-Neyman probing methods extended to two-condition within-subject designs. Presented at the Annual Convention of the Association for Psychological Science, Boston, MA.

Montoya, A. K., & Hayes, A. F. (2015, May). Estimating and testing indirect effects in within-subject mediation analysis: A path-analytic framework. Presented at the Annual Convention of the Association for

Psychological Science, New York, NY.

Montoya, A. K., Flaherty, B., & Cheryan, S. (2015, Feb). Collapsing conditions increases type I error: Changing analysis of multiple control conditions. Presented at the Annual Meeting of the Society for Personality and Social Psychology, Long Beach, CA.

Montoya, A. K., Master, A., & Cheryan, S., (2014, Feb). Communal goal fulfillment through group work: A new direction in recruiting women into computer science. Presented at the Annual Meeting of the Society for Personality and Social Psychology, Austin, TX.

Montoya, A. K., Master, A., & Cheryan S., (2013, May). Using group work to recruit women to STEM: A goal congruity approach. Presented at the 42nd Annual Department of Psychology Research Festival, Seattle, WA.

Stillwell, E., Montoya, A. K., Master, A., & Cheryan, S., (2013, May). Perceptions of group work in STEM fields: Explaining women's disinterest in computer science. Presented at the Annual UW Undergraduate Research Symposium, Seattle, WA.

Montoya, A. K., Master, A., & Cheryan, S. (2013, Jan). Students' goal endorsement predicts perceived fit in STEM fields. Presented at the Annual Meeting of the Society for Personality and Social Science, New Orleans, LA.

Montoya, A. K., Master, A., & Cheryan, S. (2012, May). Perceptions of communal goals predict students' interest in STEM fields. Presented at the Annual UW Undergraduate Research Symposium, Seattle, WA.

\*Future presentations which have already been accepted.

† Student or postdoc author (Primary mentor) ‡ Student or postdoc author (Non-primary mentor)

### SOFTWARE

MEMORE, Macro for SPSS and SAS

- V1 allows for mediation analysis in two-instance repeated-measures (TIRM) designs with one or more mediators in parallel or serial. Released in 2017.
- V2 added functionality for testing moderation analysis in TIRM designs with one or more moderators in additive or multiplicative models. Released in 2019
- V3 added functionality for testing moderated mediation analysis in TIRM designs with one or more mediators in parallel and a single moderators. Released in 2025

Omnibus Groups Regions of Significance (OGRS), Macro for SPSS and SAS LINK

• V1.2 allows for probing interactions between a multicategorical independent variable and a continuous moderator in predicting a continuous outcome variable.

#### **MENTORSHIP**

## **Graduate Students**

Bidkar Salazar 2025 –
Lillian King 2025 –
Jared Block (co-mentored with Steve Reise) 2022 –

Alondra Cruz, Masters	2021 - 2023
Tristan Tibbe, PhD Dissertation: A Comprehensive Comparison of Missing Data Procedures for Tree-Based Machine Learning Methods [LINK] Current Position: Senior Statistician, Department of Medicine Statistics Core, UCLA	2019 - 2024
Jessica Fossum, PhD Dissertation: Impacts of Model Specification on Statistical Power and Type I Error Rate in Moderated Mediation Analysis [LINK] Current Position: Instructor of Research Psychology, Director of Research - Graduate Psychology, Seattle Pacific University	2019 - 2023
Under graduates/Postbacca laure at e	
Hannah Steinberg, UCLA, Research Assistant/Honors Student Current Position: PhD Student in Quantitative Psychology at Arizona State University	2024 - 2025
Defne Tanyildiz, UCLA, Research Assistant	2024 -
Gareth Yu, UCLA, Research Assistant	2024 -
Jennifer Ding, UCLA, Research Assistant	2023 - 2025
Jack Conner, UCLA, Research Assistant	2023 –
Jocelyn Yang, UCLA, Research Assistant Current Position: Masters student in Biostatistics at Harvard University	2023 - 2025
Jun Yu (Johnny) Chen, UCLA, Research Assistant	2023
Eunwoo Kim, UCLA, Research Assistant	2023
Yiwei Wang, UCLA, Research Assistant, Departmental Honors Current Position: PhD Student in Quantitative Psychology at University of Notre Dame	2022 - 2024
Deana Moghaddas, UCLA, Research Assistant Current position: Data and Policy Analyst I — Statistical Programmer, Acumen, LLC	2021 - 2023
Anushka Chakrabarti, UCLA, Research Assistant Current position: HSBC Commercial Banking Graduate Analyst	2021 - 2023
Amy Tang, UCLA, Research Assistant Current position: Master's student in Data Science at New York University	2021 - 2023
Nickie Yang, UCLA, Research Assistant/PROPS/PEERS Current position: Medical Student at University of California, San Francisco	2020 - 2024
Erika Garcia, UCLA, Research Assistant/PEERS	2020 - 2022
Jared Block, UCLA, Research Assistant Current Position: PhD Student in Quantitative Psychology at UCLA	2021 - 2022

Yuhan (Bruce) Mei, UCLA, Research Assistant Current Position: PhD Program in Management and Organization at Duke.	2020 - 2022
Carolyn Moore, UCLA, Research Assistant Current Position: Associate Consultant, Bain & Company	2020 - 2021
Kathleen Lamarque-Navarrete, Departmental Honors Previous Position: Lab Manager for QRClab (PI: Montoya)	2020 - 2022
Yihuan (Charlotte) Huang, UCLA, Research Assistant Current Position: Data Scientist at Facebook	2018 - 2021
Zach Loran, UCLA, Research Assistant Current Position: Data Analyst at FieldLevel.com	2018 - 2021
Valerie Polad, PROPS Current Position: PhD Student in Quantitative Psychology at UNC-Chapel Hill	2019 - 2021
Nancy Gomez, Research Assistant Current Position: PhD Student in Quantitative Psychology at University of Washin	2019 – 2021 ngton
Anjum Farook, UCLA, Research Assistant Current Position: Business Analyst at FMGG Direct	2019 - 2020
Kevin Le, UCLA, Research Assistant Current Position: Masters Student in Data Science at Brown University	2019 - 2020
Chris Silberstein, OSU, Research Assistant Current Position: Data Engineer at CVS Health	2017 - 2018
Mentee Awards	
Block, J. $^{\dagger}$ National Science Foundation, Graduate Research Fellowship,	2024 - 2027
Block, J. $^{\dagger}$ UCLA Graduate Division, Graduate Summer Research Mentorship Awar	rd, 2023
Cruz, A. $^{\dagger}$ UCLA Graduate Division, Graduate Research Mentorship Award,	2022
Cruz, A. $^{\dagger}$ UCLA Graduate Division, Graduate Summer Research Mentorship Awar	rd, 2022
Consultant to Erica Grodin (PI); Sponsor Lara Ray "Characterizing the Microbiome-Gut-Brain Axis in Individuals with Alcohol Use Disorder" Ruth. L. Kirschstein National Research Service Award (NRSA) Predoctoral Fellowship, National Institute on Alcohol Abuse and Alcoholism (NIAAA 1K01AA029712-01.	04/01/2022-03/31/2027 AA),
Consultant to Lindsay Meredith (PI); Sponsor Lara Ray "Neuroimmune Treatment for AUD: Testing Moderators of Clinical Response	06/01/2022-05/31/2024

and Mechanisms of Action" Ruth. L. Kirschstein National Research Service Award (NRSA) Predoctoral Fellowship, National Institute on Alcohol Abuse

and Alcoholism (NIAAA), NIH F31AA0292, \$40,690 TDC.

Tibbe, $\mathbf{T}.^{\dagger}$ UCLA, Graduate Division, Graduate Dean's Scholar Award,	2020 - 2022
Fossum, J. L. $^{\dagger}$ UCLA Graduate Division, Graduate Research Mentorship Award,	2021 - 2022
Tibbe, T. $^{\dagger}$ National Science Foundation, Graduate Research Fellowship, Mediation Analysis with Missing Data: Correcting the Bias-Corrected Bootstrap	2021 - 2023
Consultant to Anika Guha (PI); co-sponsors Cindy M. Yee-Bradbury and Gregory A. Miller. Identifying Neural Mechanisms of Aberrant Inhibitory Processing and Salience in Patients with Schizophrenia." Individual National Research Service Award (pre-doc), National Institute of Mental Health F31 MH124421, \$74,674 TDC.	02/01/21-01/31/23
Tibbe, T. D. $^{\dagger}$ UCLA Graduate Division, Graduate Summer Research Mentorship Awar	ed, 2020
Huang, Y. $^{\dagger}$ UCLA Library Prize for Undergraduate Research in the Science, Engineerin and Math, Lack of Robustness of Lasso and Group Lasso with Categorical Predictors.	0,
Dissertation Committee Members	

Michael Woller, Quantitative Psychology, Chair: Craig Enders	In Progress
Richard Tyrus Korecki, Clinical Psychology, Chair: Julie Bower	In Progress
Stefany Mena, Quantitative Psychology, Chair: Han Du	2025
Egamaria Alacam, Quantitative Psychology, Chair: Craig Enders	2024
Logan Leathem, Clinical Psychology, Chair: Katie Karlsgodt	2024
Juan Diego Vera, Quantitative Psychology, Chair: Craig Enders	2023
Giovanni Ramos, Clinical Psychology, Chair: Denise Chavira	2022
Blanche Wright, Clinical Psychology, Chair: Anna Lau	2022
Rejoyce Green, Clinical Psychology, Chair: Lara Ray	2021
Morgan Bartholomew, Clinical Psychology, Chairs: Greg Miller & Cindy Yee-Bradbury	2021
Chelsea Romney, Health Psychology, Chair: Ted Robles	2021
Beth Moroney, Clinical Psychology, Chair: Steve Lee	2021
Comprehensive Exam Committee Member	
Juan Diego Vera, Quantitative Psychology, Chair: Craig Enders	2022
Egamaria Alacam, Quantitative Psychology, Chair: Craig Enders	2022

# FUNDING

# Grants

Statistician (PI: Priscilla Lui, UW), University of Washington Addictions, Drug & Alcohol Institute (ADAI), Effects of Acculturative Stress on Drinking to Cope: Testing Bicultural Self-Acceptance and Social Support Interventions. (\$3,000)	2025
Principle Investigator, National Science Foundation, Ethical and Responsible Research, Redefining Questionable Research Practices and the Role of Registered Reports: A Cross-Disciplinary and Multi-Stakeholder Exploration Award No: 2418938 (\$399,674)	2024 - 2027
Institute for Digital Research and Education, Workshop Award (\$5,000)	2022
Co-Principal Investigator (PI: Lara Ray), National Institutes of Health,  Identifying treatment responders in medication trials for AUD using machine learning approaches, Award No: 1R03AA029244-01 (\$149,553)	2021 - 3/2023
Faculty Affiliate, National Institutes of Mental Health, $T32:\ Biobehavioral\ Issues\ in\ Physical\ and\ Mental\ Health$ , UCLA	2021 - 2026
Faculty Career Development Award, UCLA Equity, Diversity, and Inclusion (\$15,000)	2020
Collaborator, National Science Foundation, Create a STEM Education Research Hub	2020 - 2025
Principal Investigator, National Science Foundation, Ethical and Responsible Research, Aligning Incentives: Can Registered Reports Encourage Ethical and Responsible Research Practices among Early Career Researchers, Award No. 2024377 (\$400,127)	2020 - 2023
Co-Investigator (PI: Jennifer Sumner), National Institute of Health, National Heart, Lung, and Blood Institute, Identifying Early Intervention Targets for Reducing CardiovascularRisk in Posttraumatic Stress, Award No: R01 HL139614 (\$788,933).	2018 - 6/2023
Co-Investigator, Decision Sciences Collaborative, Small Research Grant, The Ohio State University Numeracy-related responding to numeric self-report scales $(\$2,260)$	ersity, 2017
	ersity, 2017
Numeracy-related responding to numeric self-report scales (\$2,260)	ersity, 2017 2024
Numeracy-related responding to numeric self-report scales (\$2,260)  Fellowships	

# Honors & Awards

SAGE Early Career Trajectory Award, Society for Personality of Social Psychology (\$2000)	2024
Quantitude Podcast, Meme Caption Awesomeness Award [LINK]	2022
UCLA, Undergraduate Research Week Faculty Mentor Award	2022
Department of Psychology, UCLA, Distinguished Teaching Award	2022
Association for Psychological Science, APS Rising Star Award	2022
Department of Psychology, UCLA, PGSA J. Arthur Woodward Graduate Mentoring Award	2020
Department of Psychology, The Ohio State University, Herbert Toops Research Award, Two-condition within-participant statistical mediation analysis: A path-analytic framework ( $\$500$ )	2017
Department of Psychology, The Ohio State University, Spring Graduate Research Forum, 1st Place, Extending the Johnson-Neyman procedure to categorical independent variables: Mathematical derivations and computational tools ( $\$500$ )	2017
Association for Psychological Science, Student Caucus Volunteer/Travel Assistance Award (\$200)	2017
Council of Graduate Students, The Ohio State University, Ray Travel Award (\$1000)	2017
Council of Graduate Students, The Ohio State University, Ray Travel Award (\$750)	2016
Society for Personality and Social Psychology, Graduate Travel Award (\$500)	2016
Society for Personality and Social Psychology, Diversity Fund Graduate Travel Award (\$500)	2016
Association for Psychological Science, Student Caucus Volunteer/Travel Assistance Award (\$200)	2015
Society for Personality and Social Psychology, Diversity Fund Undergraduate Registration Award $(\$340)$	2013
Department of Psychology, University of Washington, Guthrie Price for Best Empirical Paper, Increasing interest in computer science through group work: A goal congruity approach (\$250)	2013
University of Washington, Mary Gates Research Scholarship, How increasing perceptions of communal goals in computer science can increase women's interest (\$4,000)	2013
University of Washington, Undergraduate Research Travel Conference Award (\$650)	2013

# TEACHING EXPERIENCE

# **Invited Workshops**

<u>Co-Instructor with William Krenzer</u>, Getting Started with Registered Reports, Association for Psychological Science, Washington DC.

<u>Instructor</u> , Promoting Reproducibility in Africa: Preregistration and Registered Reports, African Reproducibility Network, Virtual.	2025, May
Co-Instructor with Jared Block†, Introduction for Item Response Theory (IRT) for Psychology Research, Western Psychological Association, Las Vegas, NV.	2025, May
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis I, Global School of Empirical Research Methods, University of St. Gallen.	2025, June
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis II, Global School of Empirical Research Methods, University of St. Gallen.	2025, June
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis, Statistical Horizons, Virtual.	2025, April
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis I, Global School of Empirical Research Methods, University of Ljubljana.	2025, Jan
<u>Instructor</u> , Getting Started with Registered Reports, Center for Open Science - Instagram Data Access Team	Nov 2024
<u>Instructor</u> , Mediation and Moderation Analysis for Simple Within-Subject Designs, Statistical Horizons, Virtual.*	2024, Sept
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis I, Global School of Empirical Research Methods, University of St. Gallen.	2024, June
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis II, Global School of Empirical Research Methods, University of St. Gallen.	2024, June
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis, Statistical Horizons, Virtual.	2024, April
Co-Instructor with Jessica Fossum†, Introduction to Moderation Analysis, American Psychological Association, Science Training Session, Virtual.	2023, Nov
Co-Instructor with Jessica Fossum†, Introduction to Mediation Analysis, American Psychological Association, Science Training Session, Virtual.	2023, Nov
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis I, Global School of Empirical Research Methods, University of St. Gallen.	2023, June
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis II, Global School of Empirical Research Methods, University of St. Gallen.	2023, June
<u>Co-Instructor with William Krenzer and Tristan Tibbe</u> <sup>†</sup> , Getting Started with Registered Reports, Institute for Digital Research and Education, UCLA, Los Angeles, CA.	2023, June
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis, Statistical Horizons, Virtual.	2023, April
Co-Instructor with Tristan Tibbe <sup>†</sup> , Best Practices in Mediation Analysis, Annual Convention of the Western Psychological Association, Riverside, CA.	2023, April

Co-Instructor with William Krenzer and Tristan Tibbe <sup>†</sup> , Getting Started with Registered Reports, Institute for Digital Research and Education, UCLA, Los Angeles, CA. ▶	March
Co-Instructor with William Krenzer and Tristan Tibbe <sup>†</sup> , Getting Started with Registered Reports, Institute for Digital Research and Education, UCLA, Los Angeles, CA.	3, Jan
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis I, Global School of Empirical Research Methods, University of Ljubljana.*	3, Jan
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis, Statistical Horizons, Virtual.	2, Aug
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis I, Global School of Empirical Research Methods, University of St. Gallen, Virtual.	, June
Co-Instructor with Jessica Fossum <sup>†</sup> , Introduction to Mediation Analysis, Annual Convention of the Western Psychological Association, Portland, OR.	, April
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis, Anderson School of Management, UCLA, Los Angeles, CA.	2022
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis I, Global School of Empirical Research Methods, University of Ljubljana, Virtual.	2022
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis, Statistical Horizons, Virtual.	2022
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis, Statistical Horizons, Virtual.	2021
<u>Instructor</u> , Introduction to Mediation Analysis, Race, Ethnicity, Politics, and Society Lab (PI: Efren Perez), Los Angeles, CA.	2021
<u>Co-Instructor</u> , Mediation, Moderation, and Conditional Process Analysis II, Global School of Empirical Research Methods, University of St. Gallen, Virtual.	2021
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis I, Global School of Empirical Research Methods, University of St. Gallen, Virtual.	2021
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis I, Global School of Empirical Research Methods, University of Ljubljana, Virtual.	2021
<u>Instructor</u> , Mediation and Moderation for Two-Instance Repeated-Measures Designs, Annual Convention of the Western Psychological Association, Virtual.	2020
<u>Co-Instructor</u> , Considerations for Planning and Evaluating Sample Size, Annual Convention of the Association for Psychological Science, Chicago, IL. (Conference Cancelled)	2020
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis I, Global School of Empirical Research Methods, University of St. Gallen, St. Gallen, Switzerland.	2020
<u>Instructor</u> , Mediation in Repeated Measures and Multilevel Designs,	2019

Annual Convention of the Association for Psychological Science, Washington DC.

Instructor, Introduction to Mediation Analysis, Annual Convention of the Western Psychological Association, Pasadena, CA.	2019
Instructor, Mediation in Repeated Measures and Multilevel Designs, Society for Personality and Social Psychology Annual Meeting, Portland, OR.	2019
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis I, Global School of Empirical Research Methods, BI Norwegian Business School, Oslo, Norway.	2019
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis I, Global School of Empirical Research Methods, University of Ljubljana, Ljubljana, Slovenia.	2018
<u>Instructor</u> , Understanding PROCESS v3: New features, building, and editing models, University of Southern California, Los Angeles, CA.	2018
<u>Co-Instructor</u> , Mediation in Repeated Measures and Multilevel Designs, Annual Convention of the Association for Psychological Science, San Francisco, CA.	2018
<u>Co-Instructor</u> , Understanding PROCESS v3: New features, building, and editing models, Society for Personality and Social Psychology Annual Meeting, Atlanta, GA.	2018
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis I, Global School of Empirical Research Methods, BI Norwegian Business School, Oslo, Norway.	2018
<u>Instructor</u> , Introduction to R through Mediation and Moderation, Department of Psychology, University of Washington, Seattle, WA.	2017
<u>Instructor</u> , MEMORE: Mediation and Moderation in Repeated Measures Designs, Society for Personality and Social Psychology Annual Meeting, San Antonio, TX.	2017
<u>Instructor</u> , Using MEMORE: Mediation in Two-Instance Repeated Measures Designs, Social Psychology Graduate Student Workshop Series, Columbus, OH.	2017
<u>Instructor</u> , Conditional Process Analysis: Moderation of Mediation, Annual Meeting for the Southeastern Psychological Association, New Orleans, LA.	2016
<u>Instructor</u> , Conditional Process Analysis: The Moderation of Mediation, University of San Francisco, San Francisco, CA.	2016
<u>Course Assistant</u> , Statistical Mediation and Moderation, Instructor: Andrew F. Hayes, Statistical Horizons, Philadelphia, PA.	2015

<sup>\*</sup>Future presentations which have already been accepted.

# Courses Taught - UCLA

Instructor, Psychological Statistics (Psych 100A), Enrollment: 250	Fall 2025*
<u>Instructor</u> , Advanced Psychological Statistics, (Psych 250C), Enrollment: 26.	Spring 2025

<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis (Psych 254B) Enrollment: 28.	Fall 2024
<u>Instructor</u> , Advanced Psychological Statistics, (Psych 250C), Enrollment: 31.	Spring 2024
Instructor, Psychological Statistics (Psych 100A), Enrollment: 248	Fall 2023
<u>Instructor</u> , Advanced Psychological Statistics, (Psych 250C), Enrollment: 33.	Spring 2023
<u>Instructor</u> , Multivariate Analysis with Latent Variables (Psych M257), Enrollment: 21	Fall 2022
<u>Instructor</u> , Advanced Psychological Statistics, (Psych 250C), Enrollment: 36.	Spring 2022
<u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis (Psych 254B) Enrollment: 33.	Winter 2022
Instructor, Psychological Statistics (Psych 100A), Enrollment: 246	Fall 2021
Instructor, Advanced Psychological Statistics, (Psych 250C), Enrollment: 33.	Spring 2021
Instructor, Psychological Statistics (Psych 100A), Enrollment: 174.	Winter 2021
<u>Instructor</u> , Advanced Psychological Statistics, Enrollment: 36. (Psych 250C)	Spring 2020
<u>Instructor</u> , Special Problems in Psychological Statistics: Mediation, Moderation, and Conditional Process Analysis (Psych 258), Enrollment: 35.	Winter 2020
Instructor, Psychological Statistics (Psych 100A), Enrollment: 275.	Fall 2019
Instructor, Psychological Statistics (Psych 100A), Enrollment: 196.	Spring 2019
<u>Instructor</u> , Special Problems in Psychological Statistics: Mediation, Moderation, and Conditional Process Analysis (Psych 258), Enrollment: 27.	Winter 2019
Additional Teaching	
<u>Guest Lecture</u> Introduction to Mediation Analysis, Instructor: Jason Geller, Princeton University, Princeton, NJ.	2023
Guest Lecture, Advanced Psychological Statistics, Instructor: Jennifer Krull, UCLA, Los Angeles, CA.	2019
<u>Guest Lecture</u> , Further Directions in Quantitative Psychology, Instructor: Leanne Stanley, The Ohio State University, Columbus, OH.	2017
Guest Lecture, Error and Inference in Statistical Modeling, Instructor: Laura Little, University of Washington, Seattle, WA.	2017
Tutor, Data Analysis in Psychology, Instructor: Joe Roberts, The Ohio State University, Columbus, OH.	2016
<u>Tutor</u> , Quantitative and Statistical Methods in Psychology,	2015

Instructor: Joe Roberts, The Ohio State University, Columbus, OH.	
<u>Guest Lecture</u> , Mediation and Moderation Analysis, Instructor: Andrew F. Hayes, The Ohio State University, Columbus, OH.	2015
<u>Teaching Assistant</u> , Summer Challenge: Math Topics, Robinson Center for Young Scholars, Supervisor: Nancy Hertzog, University of Washington, Seattle, WA.	2014
Teaching Assistant, Statistical Inference in Psychological Research, Instructor: Geoff Loftus, University of Washington, Seattle, WA.	2013
Teaching Assistant, Introduction to Probability and Statistics in Psychology, Instructor: Geoff Loftus, University of Washington, Seattle, WA.	2013
Efforts to Improve Teaching	
Equitable Teaching Practices in Psychological Research Methods and Statistics: Professional Development Conference, University of California, Virtual	2021
Engaging Students Remotely and Equitably, Center for Education Innovation and Learning in the Sciences, UCLA	2020
Teaching Remotely: Statistics and Research Methods Webchat, Federation of Associations in Behavioral and Brain Sciences	2020
Reducing Math Anxiety Among Your Students, Center for the Integration of Research, Teaching, and Learning	2020
Planning for a Remote Spring Quarter - Where to Start?, Center for Education Innovation and Learning in the Sciences, UCLA	2020
Summer Institute on Scientific Teaching, Center for Education Innovation and Learning in the Sciences, UCLA	2019
Engaging Students in the Teaching of Statistics, Center for the Integration of Research, Teaching, and Learning	2019
New Faculty Teaching Engagement, Office of Instructional Development, UCLA	2018
Best Practices in Teaching Workshop, Center for Education Innovation and Learning in the Sciences, UCLA	2018
Teaching Outreach	
Interviewee, How a UCLA Professor is Adapting Her Curriculum for Remote Learning Zoom Blog, [Link]	2020
Transitioning to Online Teaching: A Case Study, Blog, [Link]	2020

#### **SERVICE**

# **Academic Publishing**

### **Editorial Roles**

Journal of Robustness Reports, Editorial College	2025 -
Personality and Social Psychology Bulletin, Consulting Editor, Registered Reports section	2025 -
Statistics, Transparency, and Rigor (STAR) Editor, Psychological Science,	2024 - 2027
Editorial Board Member, Scientific Reports, Registered Reports Section	2020 -
Associate Editor, Evaluation and Health Professions, Special Issue: Single Subject Causal Mediation Analysis	2020-2021
Action Editor, Meta-Psychology,	2021 -
Advances in Methods and Practices in Psychological Science, Editorial Board	2021 -

## Computational Reproducibility Checks

Prati, G. (2025). Does religious-service attendance increase mental health? A random-intercept cross-lagged panel analysis across 18 years.  $Psychological\ Science,\ 36(3)$ . DOI: 10.1177/09567976251325449

# Ad hoc Reviewer

Addictive Behaviors
Advances in Method

Advances in Methods and Practices in Psychological Science

Behavior Research & Therapy

Behavioral Research Methods

BMC Medical Research Methodology

**BMC** Psychiatry

British Journal of Mathematical and Statistical Psychology

Communication Methods and Measures

Educational Psychologist

Evaluations & the Health Professions

Journal of Modern Applied Statistical Methods

Meta-Psychology

Multivariate Behavioral Research

Nature Human Behavior

Personality and Social Psychology Review

Psychological Methods

Psychological Review

Wellcome Open Research

## Open Reviews

Rohrer, J. M., Hunermund, P., Arslan, R. C., and Elson, M. (2022). That's a lot to Process! Pitfalls of Popular Path Models. Advances in Methods and Practices in Psychological Science, 5(2). [Article] [Review]

Clark, R., Drax, K., Chambers, C. D., Munafò, M., & Thompson, J. (2021). Evaluating registered reports funding partnerships: a feasibility study. *Wellcome Open Research*, 6, 231. [Article]. [Review]

Olvera Astivia, O. L., Gadermann, A., & Guhn, M. (2019). The relationship between statistical power and predictor distribution in multilevel logistic regression: A simulation-based approach. *BMC Medical Research Methodology*, 19. [Article]. [Review]

2022 - 2023

2019 - 2022

# **Grant Reviewing**

research community

NSF Reviewer

NOT REVIEWE	2022 2020
California Education Learning Lab	2019 - 2020
Professional Societies and Organizations	
Senior Moderator, PsyArxiv	2025 -
Organizer, SIPSSPSP Community Action Meeting 2026: Improving Open Science Resources for Social-Personality Psychology	2026
Panel Member, Society for Personality and Social Psychology, BECOME Mentee Cohort Meetup	2025
Board Member, Center for Open Science Board of Directors	2025 -
Workshop Teacher, Abstract Writing Basics for Conference Submissions, Association for Psychological Science, Professional Development Series, Live Webinar	2024
Panel Member, Open Science and Methodology Expert Panel, American Psychological Association	2024 -
Committee Member (Methodology Representative), Association for Psychological Science Program Committee, Association for Psychological Science	2021 - 2024
Preregistration Team Member, $Emerging\ Adulthood\ Measured\ at\ Multiple\ Institutions\ 3:$ The International Edition (EAMMI3)	2021
Reviewer, 2022 American Educational Research Association Annual Meeting SIG - Systematic Review and Meta-Analysis; Division D - Measurement & Research Methodol	2021 ogy
Conference Planning Committee, Virtual Unconference on Open Scholarship in Education Research, Center for Open Science	2021 - 2022

Steering Committee, EdArXiv: a preprint server for the education

• Committee Member 2019 - 2020 • Vice Chair (elected) 2020 - 2021 • Chair (elected) 2021 - 2022 • EdArXiv Pre-print Server Community Meeting [Recording], Aug 12, 2020 Methods Track Coordinator, 32nd Annual Convention for the Association for Psychological Science, Association for Psychological Science Panel Member, SPSPChat 13: First Gen, Society for Personality and Social Psychology 2018 Conference Volunteer, 30th Annual Convention for the Association for Psychological Science, 2018 Association for Psychological Science Conference Volunteer, 29th Annual Convention for the Association for Psychological Science, 2017 Association for Psychological Science Poster Judge, 2017 Graduate Poster Award, Society for Personality and Social Psychology 2017 Conference Volunteer, Annual Meeting of the Society for Personality and Social Psychology, 2016 Society for Personality and Social Psychology Conference Volunteer, 27th Annual Convention for the Association for Psychological Science, 2015 Association for Psychological Science Quantitative Psychology Quantitative Access and Diversity (QUAD) Squad 2020 - 2023• Quantitative Methods Info Session, Virtual 2020 • Quantitative Methods Info Session, Virtual 2021 • Quantitative Methods Info Session, Virtual 2022 University of California, Los Angeles, CA University Service Planning Committee, GeekWeek, UCLA Residential Life 2023

2020

2020

2019

2019

Reviewer, UCLA's Fulbirght U.S. Student Program Campus Review Committee

Host-Instructor, Fall 2019 Lecture Experience Program, Undergraduate Education

Panel Member, Academic and Research Speaker Panel, BruinSynaptoGenesis

Reviewer, Dr. Ursula Mandel Scholarship, Graduate Division

# Division Service

Committee Member, Director of the Institute for Quantitative & Computational Biosciences Search Committee, Division of Life Sciences	2024
Committee Member, Quantitative, Computational, and Systems Biology, BioDataX Initiative	2020 - 2021
Departmental Service	
Alternate Member, Merit Review Committee, Department of Psychology	2025 - 2026
Committee Member, Graduate Studies Committee, Department of Psychology	2023 - 2025
Committee Member, Strategic Planning Committee, Department of Psychology (appointed)	2023 - 2024
Committee Member, Executive Committee, Department of Psychology (elected)	2023 - 2025
Moderator, Psychology Undergraduate Research Conference, Department of Psychology	2023
Committee Member, Quantitative Psychology Hiring Committee, Department of Psychology	2022 - 2023
Committee Member, Quantitative Psychology Hiring Committee, Department of Psychology	2021 - 2022
Committee Member, Graduate Studies Committee, Department of Psychology	2021 - 2022
Committee Member, Quantitative Psychology Hiring Committee, Department of Psychology	2020 - 2021
Committee Member, Teaching Points Committee, Department of Psychology	2020
Panel Member, PROPS Faculty Mentorship Panel, Department of Psychology	2020
Committee Member, Merit Review Committee, Department of Psychology	2019 - 2021
Panel Member, Acing the Interview, Department of Psychology	2018
Ohio State University, Columbus, OH	
Committee Member, Senior Vice President of Research Search Committee	2017 - 2018
Committee Member, Council on Student Affairs, University Senate	2017 - 2018
Committee Member, Strategic Programming Grant Subcommittee of the Council of Student Affairs, University Senate	2017 - 2018
Committee Chair, Allocations Subcommittee of the Council on Student Affairs, University Senate	2017 - 2018
Committee Member, Graduate Compensation and Benefits Committee, University Senate	2017 - 2018

Committee Member, University Research Committee, University Senate	2017 - 2018
Treasurer, Council of Graduate Students	2017 - 2018
Committee Chair, Ray Travel Committee, Council of Graduate Students	2017 - 2018
Committee Member, Organizations and Elections Committee, Council of Graduate Students	2017 - 2018
Panel Member, University of Cincinnati McNair Scholars Visit, Office of Graduate Education	2017
Panel Member, Creating Pathways: Building Community and Engagement in Graduate and Professional Higher Education Affairs, Office of Student Life	2017
Panel Member, University of Illinois McNair Scholars Visit, Office of Graduate Education	2017
Moderator, Professional Development Panel, Hayes Graduate Research Forum, Council of Graduate Students	2017
Judge, Undergraduate Research Colloquium & Reception, Psychology Department	2017
Panel Member, Life at OSU, Office of Diversity and Inclusion	2016
Judge, Fall Student Poster Forum, Undergraduate Research Office	2016
Psychology Department Delegate, Council of Graduate Students	2016 - 2017
Committee Member, Hayes Graduate Research Forum Committee,	2016 - 2018
Council of Graduate Students	2010 - 2018
Council of Graduate Students  Panel Member, Getting Into Graduate School, Psychology Department	2016 - 2016
Panel Member, Getting Into Graduate School, Psychology Department	2016
Panel Member, Getting Into Graduate School, Psychology Department Proctor, Hayes Graduate Research Forum, Council of Graduate Students	2016 2016
Panel Member, Getting Into Graduate School, Psychology Department  Proctor, Hayes Graduate Research Forum, Council of Graduate Students  Panel Member, Funding your Graduate Education, College of Arts and Sciences  Panel Member, Money Matters: A Student Led Panel about Finding Money,	2016 2016 2016 2016
Panel Member, Getting Into Graduate School, Psychology Department  Proctor, Hayes Graduate Research Forum, Council of Graduate Students  Panel Member, Funding your Graduate Education, College of Arts and Sciences  Panel Member, Money Matters: A Student Led Panel about Finding Money,  Psychology Graduate Student Association	2016 2016 2016 2016
Panel Member, Getting Into Graduate School, Psychology Department  Proctor, Hayes Graduate Research Forum, Council of Graduate Students  Panel Member, Funding your Graduate Education, College of Arts and Sciences  Panel Member, Money Matters: A Student Led Panel about Finding Money,  Psychology Graduate Student Association  Proctor for Oral Presentations, Social and Behavioral Science, Hayes Graduate Research Forum	2016 2016 2016 2016 m 2016
Panel Member, Getting Into Graduate School, Psychology Department  Proctor, Hayes Graduate Research Forum, Council of Graduate Students  Panel Member, Funding your Graduate Education, College of Arts and Sciences  Panel Member, Money Matters: A Student Led Panel about Finding Money,  Psychology Graduate Student Association  Proctor for Oral Presentations, Social and Behavioral Science, Hayes Graduate Research Forum  Treasurer, Psychology Graduate Student Association  Panel Member, How to Get Into Graduate School, Graduate and Professional Students	2016 2016 2016 2016 2016 m 2016 2015 – 2018
Panel Member, Getting Into Graduate School, Psychology Department  Proctor, Hayes Graduate Research Forum, Council of Graduate Students  Panel Member, Funding your Graduate Education, College of Arts and Sciences  Panel Member, Money Matters: A Student Led Panel about Finding Money, Psychology Graduate Student Association  Proctor for Oral Presentations, Social and Behavioral Science, Hayes Graduate Research Forum  Treasurer, Psychology Graduate Student Association  Panel Member, How to Get Into Graduate School, Graduate and Professional Students  Recruitment Initiative	2016 2016 2016 2016 2016 m 2016 2015 - 2018 2015
Panel Member, Getting Into Graduate School, Psychology Department  Proctor, Hayes Graduate Research Forum, Council of Graduate Students  Panel Member, Funding your Graduate Education, College of Arts and Sciences  Panel Member, Money Matters: A Student Led Panel about Finding Money, Psychology Graduate Student Association  Proctor for Oral Presentations, Social and Behavioral Science, Hayes Graduate Research Forum  Treasurer, Psychology Graduate Student Association  Panel Member, How to Get Into Graduate School, Graduate and Professional Students Recruitment Initiative  Panel Member, Life at OSU, Office of Diversity and Inclusion	2016 2016 2016 2016 2016 m 2016 2015 – 2018 2015

Panel Moderator, Life at OSU, Office of Diversity and Inclusion	2014
PROFESSIONAL DEVELOPMENT	
Mentoring Graduate Student in Uncertain Times, Division of Graduate Education, Mentoring Initiatives	2025
UCLA Faculty Leadership Development Program, Office of Academic Affairs and Personnel	2025
Bruin Faculty Writing Retreat, UCLA Equity Diversity and Inclusion Office	2024
Mentorship Circle, Department of Psychology, UCLA	2024
Faculty Success Program, National Center for Faculty Diversity and Development	2023
Restorative Practice Training: How to Build Community Through Conversation, Semel Health Campus Initiative Center and The Healthy Climate Committee, UCLA	2023
Advancing Faculty Research Mentoring Refresher Workshop, Graduate Programs in Bioscience and National Research Mentoring Network, UCLA	2023
Developing a Toolkit for Fostering Open Science Practices, National Academies of Sciences, Engineering, and Medicine, Virtual	2020
Advancing Mentoring Practices Workshop, Graduate Programs in Bioscience and National Research Mentoring Network, UCLA	2020
Meta-Analysis Training Institute, Loyola University Chicago & Institute of Education Sciences	2019
Developing a Productive Writing Practice, UCLA Library	2018
Best Practices in Mentoring, UCLA Dept of Psychology	2018
SCIENTIFIC OUTREACH	
Montoya, A. K. (2025) Research replication can determine how well science is working – but how do scientists replicate studies? $The\ Conversation\ [LINK]$	
Youtube Video Series, MEMORE Macro V3.0 Release, $>1000$ views $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	2025
Siy, J. O., Germano, A. L., & <b>Montoya, A. K.</b> (Aug. 11, 2023). Career Advice to "Follow Your Parties a Paradoxical Downside. CHARACTER & CONTEXT BLOG. [LINK]	ssions"
Guest, S2E20 The Future of Teaching Quantitative Methods, Quantitude Podcast	2021
Youtube Video, How to See Presentation Notes while presenting PowerPoint slides on Zoom, $> 900,000$ views	2020
Guest, S2E01 We Know What You Did Last Summer, Quantitude Podcast	2020
Young, J. R. (2020). Preprint servers have changed research culture in many fields. Will a new one for education catch on? <i>EdSurge</i> ( <b>A. K. Montoya</b> interviewed for article). [Article Link]	
	2010

2019 -

Scientist, 500 Women Scientists, [Profile Link]

Cannon, B. (2018) Practicing Quantitative Psychology (From an Aerial Circus Trapeze!?) With Amanda Montoya, PhD.  $Eye\ on\ PsiChi\ https://doi.org/10.24839/2164-9812.Eye23.3.22.$ 

Panel Member, Psi Chi Undergraduate Research Week, Psi Chi

2019