

## Amanda Kay Montoya

### Assistant Professor of Quantitative Psychology

University of California - Los Angeles

Department of Psychology

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### ACADEMIC APPOINTMENTS

Acting Assistant Professor, Department of Psychology, UCLA July 2018 - November 2018

Assistant Professor, Department of Psychology, UCLA November 2018 - Current

### 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


Green, R., **Montoya, A. K.**, Ray, L. A. (in press). The Relationship Between Drinking and Smoking in a



Clinical Trial for Smoking Cessation and Drinking Reduction. *Experimental and Clinical Psychopharmacology*.


Meredith, L. R., Grodin, E. N., Karno, M. P., **Montoya, A. K.**, MacKillop, J., Lim, A. C. Ray, L. A. (in press). Preliminary study of alcohol problem severity and response to brief intervention. *Addiction Science & Clinical Practice*.



Delgado, D., Ramos, G., **Montoya, A. K.**, Thamrin, H., Rapp, A., Escovar, E., & Chavira, D. (in press). Discrimination and Internalizing Disorders in Rural Latinx Adolescents: An Ecological Model of Etiology. *Children and Youth Services Review*.


Fossum, J. L.<sup>†</sup>, & **Montoya, A. K.** (in press). Heterogeneity. In *The SAGE Encyclopedia of Research Design*. (2nd ed.) Thousand Oaks, CA: SAGE.

Meredith, L. M. A., Grodin, E. N., 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., **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]  

**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. *Multivariate Behavior 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.

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

Tawa, J., & **Montoya, A. K.** (Stage 1 Registered Report, accepted in principle). Racial embodiment in virtual environments for facilitating students' understanding of racism. *Technology, Mind, and Behavior*.

Giner-Sorolla, R., Aberson, C. L.\* , Bostyn, D. H.\* , Carpenter, T.\* , Conrique, B. G.\* , Lewis, Jr. N. A.\* , **Montoya, A. K.\***, Ng, B. W.\* , Reifman, A.\* , Schoemann, A. M.\* , Soderberg, C.\* (under revision). Power to detect what? Considerations for planning and evaluating sample size. 


**Montoya, A. K.** (under review). The Power of Design: Impact of Experimental Design on Statistical Power to Detect Indirect Effects Outweigh Impact of Inferential Methods.  

Leathem, L. D., Currin, D. L., **Montoya, A. K.**, & Karlsgodt, K. H. (under revision). Socioemotional Mechanisms of Loneliness in Subclinical Psychosis.

Siy, J. O., Germano, A., Vianna, L., Azpeitia, J., **Montoya, A. K.**, & Cheryan, S. (under review). Does the follow-your-passions ideology cause greater academic and occupational gender disparities than other cultural ideologies?

Green, R., Lin, J., **Montoya, A. K.**, Bello, M. S., Grodin, E. N., Ryu, H., Ho, D., Leventhal, A. M., and Ray, L. A. (under review). Predicting Treatment Seeking for Smoking Cessation: A Machine Learning Approach.


Hubbard, A. S.†, Edrosolan, K., Tan, J., **Montoya, A. K.**, Hunger, J. M., Tomiyama, A. J. (under review). Ecological Momentary Assessment of Weight Stigma and Eating Behavior in Everyday Life.


Huang, Y.† & **Montoya, A. K.** (in prep). Lasso and Group Lasso with Categorical Predictors: Impact of Coding Strategy on Variable Selection and Prediction. 

Hayes, A. F., & **Montoya, A. K.** (in prep). Mediation Analysis in the Two Condition Pretest-Posttest Design: A Treatment-as-Moderator Conditional Process Approach.

† Student or postdoc author

## White Papers

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. 

\* Authors appear alphabetically, reflecting their equal contributions

## BOOKS

Hayes, A. F., **Montoya, A. K.**, 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.** (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

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.

**Montoya, A. K.**, Makel, M. C., 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. <sup>†</sup>, & **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.**, 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


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. 

Loran, Z.<sup>†</sup> & **Montoya, A. K.**, (2021, May). Methods for detecting numeracy's effect on trait-unrelated response 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.<sup>†</sup> & **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.<sup>†</sup> & **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.<sup>†</sup> & **Montoya, A. K.**, (2020, May). Reducing Carryover Effects in Within-Subjects Design. Presented at the 29th Annual UCLA Psychology Undergraduate Research Conference, Los Angeles, CA. 🌸

Polad, V.<sup>†</sup> & **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., 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

## MENTORSHIP

### Dissertation Committee Members

|   |             |
|---|-------------|
| Morgan Bartholomew, Clinical Psychology, Chairs: Greg Miller & Cindy Yee-Bradbury | In Progress |
| Blanche Wright, Clinical Psychology, Chair: Anna Lau                              | In Progress |
| Rejoyce Green, Clinical Psychology, Chair: Lara Ray                               | In Progress |
| Giovanni Ramos, Clinical Psychology, Chair: Denise Chavira                        | In Progress |
| Chelsea Romney, Health Psychology, Chair: Ted Robles                              | 2021        |
| Beth Moroney, Clinical Psychology, Chair: Steve Lee                               | 2021        |

## Graduate Students

|                |        |
|----------------|--------|
| Jessica Fossum | 2019 – |
| Tristan Tibbe  | 2019 – |

## Undergraduates/Postbaccalaureate

|   |             |
|---|-------------|
| Yuhan (Bruce) Mei, UCLA, Research Assistant   | 2020 –      |
| Carolyn Moore, UCLA, Research Assistant   | 2020 –      |
| Kathleen Lamarque-Navarrete, Departmental Honors  | 2020 –      |
| Yihuan (Charlotte) Huang, UCLA, Research Assistant  | 2018 –      |
| Zach Loran, UCLA, Research Assistant  | 2018 –      |
| Valerie Polad, PROPS<br>Current Position: PhD Student in Quantitative Psychology at UNC-Chapel Hill                     | 2019 – 2021 |
| Nancy Gomez, Research Assistant<br>Current Position: PhD Student in Quantitative Psychology at University of Washington | 2019 – 2021 |
| Anjum Farook, UCLA, Research Assistant<br>Current Position: Business Analyst at FMGG Direct                             | 2019 – 2020 |
| Kevin Le, UCLA, Research Assistant<br>Current Position: Masters Student in Data Science at Brown University             | 2019 – 2020 |
| Chris Silberstein, OSU, Research Assistant<br>Current Position: Data Engineer at CVS Health                             | 2017 – 2018 |

## Mentee Awards

|  |                   |
|--|-------------------|
| Tibbe, T.† UCLA, Graduate Division, Graduate Dean’s Scholar Award,   | 2020 – 2022       |
| Fossum, J. L.† UCLA Graduate Division, Graduate Research Mentorship Award,   | 2021 – 2022       |
| Tibbe, T.† National Science Foundation, Graduate Research Fellowship,<br><i>Mediation Analysis with Missing Data: Correcting the Bias-Corrected Bootstrap</i>  | 2021 – 2023       |
| <b>Consultant</b> 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.† UCLA Graduate Division, Graduate Summer Research Mentorship Award,   | 2020              |

Huang, Y.<sup>†</sup> UCLA Library Prize for Undergraduate Research in the Science, Engineering, and Math, *Lack of Robustness of Lasso and Group Lasso with Categorical Predictors*. (\$700) 2020

## FUNDING

### Grants


Collaborator, National Science Foundation, *AccelNet-Implementation: Community of Open Scholarship Grassroots Networks (COSGN)* Pending

Co-Investigator (PI: Lara Ray), National Institutes of Health, *Translational underpinnings of motivation for alcohol in humans* (\$1,994,247) Pending

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) 4/2021 - 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 Cardiovascular Risk in Posttraumatic Stress*, Award No: R01 HL139614 (\$788,933). 8/2018 - 6/2023

Co-Investigator, Decision Sciences Collaborative, Small Research Grant, The Ohio State University, *Numeracy-related responding to numeric self-report scales* (\$2,260) 2017

### Fellowships

National Science Foundation, Graduate Research Fellowship, *Modernizing Within-Subjects Mediation Analysis* (\$102,000) 2015

The Ohio State University, Susan L. Huntington Dean's Distinguished University Fellowship (\$85,500) 2014

### Honors & Awards

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

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|--|------|
| Department of Psychology, The Ohio State University, Spring Graduate Research Forum, 1st Place, <i>Extending the Johnson-Neyman procedure to categorical independent variables: Mathematical derivations and computational tools</i> (\$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, <i>Increasing interest in computer science through group work: A goal congruity approach</i> (\$250)   | 2013 |
| University of Washington, Mary Gates Research Scholarship, <i>How increasing perceptions of communal goals in computer science can increase women's interest</i> (\$4,000)   | 2013 |
| University of Washington, Undergraduate Research Travel Conference Award (\$650)   | 2013 |

## TEACHING EXPERIENCE

### Invited Workshops

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| <u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis I, Global School of Empirical Research Methods, University of Ljubljana, Virtual.*                     | 2022 |
| <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,<br>Global School of Empirical Research Methods, University of St. Gallen, St. Gallen, Switzerland. | 2020 |
| <u>Instructor</u> , Mediation in Repeated Measures and Multilevel Designs,<br>Annual Convention of the Association for Psychological Science, Washington DC.                      | 2019 |
| <u>Instructor</u> , Introduction to Mediation Analysis,<br>Annual Convention of the Western Psychological Association, Pasadena, CA.  | 2019 |
| <u>Instructor</u> , Mediation in Repeated Measures and Multilevel Designs,<br>Society for Personality and Social Psychology Annual Meeting, Portland, OR.                         | 2019 |
| <u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis I,<br>Global School of Empirical Research Methods, BI Norwegian Business School, Oslo, Norway.        | 2019 |
| <u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis I,<br>Global School of Empirical Research Methods, University of Ljubljana, Ljubljana, Slovenia.      | 2018 |
| <u>Instructor</u> , Understanding PROCESS v3: New features, building, and editing models,<br>University of Southern California, Los Angeles, CA.                                  | 2018 |
| <u>Co-Instructor</u> , Mediation in Repeated Measures and Multilevel Designs,<br>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,<br>Society for Personality and Social Psychology Annual Meeting, Atlanta, GA.        | 2018 |
| <u>Instructor</u> , Mediation, Moderation, and Conditional Process Analysis I,<br>Global School of Empirical Research Methods, BI Norwegian Business School, Oslo, Norway.        | 2018 |
| <u>Instructor</u> , Introduction to R through Mediation and Moderation,<br>Department of Psychology, University of Washington, Seattle, WA.                                       | 2017 |
| <u>Instructor</u> , MEMORE: Mediation and Moderation in Repeated Measures Designs,<br>Society for Personality and Social Psychology Annual Meeting, San Antonio, TX.              | 2017 |
| <u>Instructor</u> , Using MEMORE: Mediation in Two-Instance Repeated Measures Designs,<br>Social Psychology Graduate Student Workshop Series, Columbus, OH.                       | 2017 |
| <u>Instructor</u> , Conditional Process Analysis: Moderation of Mediation,<br>Annual Meeting for the Southeastern Psychological Association, New Orleans, LA.                     | 2016 |
| <u>Instructor</u> , Conditional Process Analysis: The Moderation of Mediation,<br>University of San Francisco, San Francisco, CA.   | 2016 |
| <u>Course Assistant</u> , Statistical Mediation and Moderation,<br>Instructor: Andrew F. Hayes, Statistical Horizons, Philadelphia, PA.   | 2015 |

\*Future presentations which have already been accepted.

## Courses Taught - UCLA

|   |             |
|---|-------------|
| <u>Instructor</u> , Advanced Psychological Statistics, (Psych 250C), Enrollment: 33.  | Spring 2021 |
| <u>Instructor</u> , Psychological Statistics (Psych 100A),<br>Enrollment: 174.  | Winter 2021 |
| <u>Instructor</u> , Advanced Psychological Statistics, (Psych 250C), Enrollment: 36.  | Spring 2020 |
| <u>Instructor</u> , Special Problems in Psychological Statistics: Mediation, Moderation,<br>and Conditional Process Analysis (Psych 258), Enrollment: 35. | Winter 2020 |
| <u>Instructor</u> , Psychological Statistics (Psych 100A),<br>Enrollment: 275.  | Fall 2019   |
| <u>Instructor</u> , Psychological Statistics (Psych 100A),<br>Enrollment: 196.  | Spring 2019 |
| <u>Instructor</u> , Special Problems in Psychological Statistics: Mediation, Moderation,<br>and Conditional Process Analysis (Psych 258), Enrollment: 27. | Winter 2019 |

## Additional Teaching

|   |      |
|---|------|
| <u>Guest Lecture</u> , Advanced Psychological Statistics,<br>Instructor: Jennifer Krull, UCLA, Los Angeles, CA.   | 2019 |
| <u>Guest Lecture</u> , Further Directions in Quantitative Psychology,<br>Instructor: Leanne Stanley, The Ohio State University, Columbus, OH.                       | 2017 |
| <u>Guest Lecture</u> , Error and Inference in Statistical Modeling,<br>Instructor: Laura Little, University of Washington, Seattle, WA.                             | 2017 |
| <u>Tutor</u> , Data Analysis in Psychology,<br>Instructor: Joe Roberts, The Ohio State University, Columbus, OH.  | 2016 |
| <u>Tutor</u> , Quantitative and Statistical Methods in Psychology,<br>Instructor: Joe Roberts, The Ohio State University, Columbus, OH.                             | 2015 |
| <u>Guest Lecture</u> , Mediation and Moderation Analysis,<br>Instructor: Andrew F. Hayes, The Ohio State University, Columbus, OH.                                  | 2015 |
| <u>Teaching Assistant</u> , Summer Challenge: Math Topics, Robinson Center for Young Scholars,<br>Supervisor: Nancy Hertzog, University of Washington, Seattle, WA. | 2014 |
| <u>Teaching Assistant</u> , Statistical Inference in Psychological Research,<br>Instructor: Geoff Loftus, University of Washington, Seattle, WA.                    | 2013 |
| <u>Teaching Assistant</u> , Introduction to Probability and Statistics in Psychology,<br>Instructor: Geoff Loftus, University of Washington, Seattle, WA.           | 2013 |

## Efforts to Improve Teaching

|   |      |
|---|------|
| Engaging Students Remotely and Equitably,<br>Center for Education Innovation and Learning in the Sciences, UCLA               | 2020 |
| Teaching Remotely: Statistics and Research Methods Webchat,<br>Federation of Associations in Behavioral and Brain Sciences    | 2020 |
| Reducing Math Anxiety Among Your Students,<br>Center for the Integration of Research, Teaching, and Learning                  | 2020 |
| Planning for a Remote Spring Quarter - Where to Start?,<br>Center for Education Innovation and Learning in the Sciences, UCLA | 2020 |
| Summer Institute on Scientific Teaching,<br>Center for Education Innovation and Learning in the Sciences, UCLA                | 2019 |
| Engaging Students in the Teaching of Statistics,<br>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<br>Learning in the Sciences, UCLA                    | 2018 |

## Teaching Outreach

|   |      |
|---|------|
| Interviewee, How a UCLA Professor is Adapting Her Curriculum for Remote Learning<br>Zoom Blog, <a href="#">[Link]</a> | 2020 |
| Transitioning to Online Teaching: A Case Study, Blog, <a href="#">[Link]</a>  | 2020 |

## MEMBERSHIPS

American Educational Research Association  
American Psychological Association  
American Statistical Association  
Association for Psychological Science  
Society for Personality and Social Psychology  
Society for the Improvement of Psychological Science  
Southeastern Psychological Association  
Western Psychological Association

## SERVICE

### Academic Publishing

#### Editorial Roles

|  |        |
|--|--------|
| Scientific Reports, Editorial Board Member, Registered Reports Section | 2020 – |
|--|--------|

Evaluation and Health Professions, Associate Editor, 2020-2021  
Special Issue: Single Subject Causal Mediation Analysis

Meta-Psychology, Advisory Board 2021 –

### **Ad hoc Reviewer**

Addictive Behaviors  
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 & Health Professions  
Journal of Modern Applied Statistical Methods  
Meta-Psychology  
Multivariate Behavioral Research  
Personality and Social Psychology Review  
Psychological Methods  
Psychological Review

### **Open Reviews**

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

### **Grant Reviewing**

California Education Learning Lab 2019 – 2020

### **Professional Societies and Organizations**

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* 2021  
SIG - Systematic Review and Meta-Analysis; Division D - Measurement & Research Methodology

Conference Planning Committee, *Virtual Unconference on Open Scholarship in Education Research* 2021 - 2022



Center for Open Science

Methods Track Coordinator, *32nd Annual Convention for the Association for Psychological Science*, 2019  
Association for Psychological Science

Panel Member, SPSPChat 13: First Gen, Society for Personality and Social Psychology 2018

Vice Chair of Steering Committee (Chair Elect), EdArXiv: a preprint server for the education research 2020  
– community (elected)

EdArXiv Pre-print Server Community Meeting [Recording] Aug 12, 2020

Steering Committee, EdArXiv: a preprint server for the education research community 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**

Organizer, Quantitative Methods Info Session, Virtual 2020 - 2021

## **University of California, Los Angeles, CA**

### **University Service**

Reviewer, UCLA's Fulbright U.S. Student Program Campus Review Committee 2020

Panel Member, Academic and Research Speaker Panel, BruinSynaptoGenesis 2020

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

Reviewer, Dr. Ursula Mandel Scholarship, Graduate Division 2019

### **Division Service**

Committee Member, Quantitative, Computational, and Systems Biology, BioDataX Initiative 2020 –

## Departmental Service

|  |             |
|--|-------------|
| 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 –      |
| 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,<br>University Senate  | 2017 – 2018 |
| Committee Member, Strategic Programming Grant Subcommittee of the Council<br>of Student Affairs, University Senate                                  | 2017 – 2018 |
| Committee Chair, Allocations Subcommittee of the Council on Student Affairs,<br>University Senate   | 2017 – 2018 |
| Committee Member, Graduate Compensation and Benefits Committee,<br>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,<br>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<br>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,<br>Council of Graduate Students   | 2017        |
| Judge, Undergraduate Research Colloquium & Reception, Psychology Department   | 2017        |
| Panel Member, Life at OSU, Office of Diversity and Inclusion  | 2016        |

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|--|-------------|
| 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,<br>Council of Graduate Students                       | 2016 – 2018 |
| Panel Member, Getting Into Graduate School, Psychology Department  | 2016        |
| Proctor, Hayes Graduate Research Forum, Council of Graduate Students   | 2016        |
| Panel Member, Funding your Graduate Education, College of Arts and Sciences                                      | 2016        |
| Panel Member, Money Matters: A Student Led Panel about Finding Money,<br>Psychology Graduate Student Association | 2016        |
| Proctor for Oral Presentations, Social and Behavioral Science, Hayes Graduate Research Forum                     | 2016        |
| Treasurer, Psychology Graduate Student Association   | 2015 – 2018 |
| Panel Member, How to Get Into Graduate School, Graduate and Professional Students<br>Recruitment Initiative      | 2015        |
| Panel Member, Life at OSU, Office of Diversity and Inclusion   | 2015        |
| Judge, Fall Student Poster Forum, Undergraduate Research Office  | 2015        |
| Panel Member, Psychology Department Diversity Open House   | 2015        |
| Panel Member, Applying to Graduate School in Psychology Workshop   | 2015        |
| Panel Moderator, Life at OSU, Office of Diversity and Inclusion  | 2014        |

### PROFESSIONAL DEVELOPMENT

|  |      |
|--|------|
| Developing a Toolkit for Fostering Open Science Practices,<br>National Academies of Sciences, Engineering, and Medicine, Virtual | 2020 |
| Advancing Mentoring Practices Workshop,<br>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

|  |      |
|--|------|
| Guest, S2E20 The Future of Teaching Quantitative Methods, Quantitude Podcast | 2021 |
| 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? *EdSurge* (A. K. Montoya interviewed for article). [Article Link]

Scientist, 500 Women Scientists, [Profile Link] 2019 –

Scientist, Skype a Scientist 2017 –

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