

Mary Ryan Baumann

Curriculum Vitae

Updated May 2025

Assistant Professor

Departments of Population Health Sciences & Biostatistics and Medical Informatics

University of Wisconsin-Madison | Madison, WI 53726

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RESEARCH INTERESTS

Clinical trials, pragmatic clinical trials, cluster randomized trials, correlated data, group sequential design, epidemiology of Alzheimer's disease, Alzheimer's disease biomarker discovery

EDUCATION

- | | |
|------|---|
| 2021 | Ph.D. (Statistics)
University of California, Irvine
<i>Dissertation: Robustness and Efficiency in Modern Biostatistical Studies</i>
<i>Advisor: Daniel L. Gillen, Professor and Chair of Statistics</i> |
| 2019 | M.S. (Statistics)
University of California, Irvine |
| 2016 | B.A. (Statistics); B.J. (Journalism)
<i>Minor, Mathematics</i>
University of Missouri, Columbia |

ACADEMIC POSITIONS

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|----------------|--|
| 2023 - present | Assistant Professor
Department of Population Health Sciences
University of Wisconsin-Madison (Madison, WI) |
| 2023 - present | Assistant Professor
Department of Biostatistics and Medical Informatics
University of Wisconsin-Madison (Madison, WI) |
| 2021 - 2023 | Postdoctoral Associate
Department of Biostatistics
Yale School of Public Health (New Haven, CT) |
| 2017 - 2021 | Graduate Research Assistant
Department of Statistics
University of California, Irvine (Irvine, CA) |
| 2014 - 2016 | Undergraduate Research Assistant
Department of Statistics
University of Missouri (Columbia, MO) |

COLLABORATIVE RESEARCH AFFILIATIONS & APPOINTMENTS

2023 - present	Center for Demography and Healthy Aging University of Wisconsin-Madison (Madison, WI)
2017 - present	Gillen/Grill Alzheimer's Disease Research Lab University of California, Irvine (Irvine, CA)
2021 - 2023	Yale Center for Analytical Sciences Yale School of Public Health (New Haven, CT)
2014 - 2021	Data Management and Statistics Core Alzheimer's Disease Research Center University of California, Irvine (Irvine, CA)

REFEREED JOURNAL PUBLICATIONS

"*" indicates mentored graduate student

15. **Baumann Ryan, M.**, Esserman, D., Taljaard, M., Li, F. "Power calculation for cross-sectional stepped wedge cluster randomized trials with time-to-event endpoints." *Biometrics*. (Provisionally accepted May 2025). Preprint available on arXiv: <https://doi.org/10.48550/arXiv.2312.13097>
14. Dolmadjian, L.*, **Ryan Baumann, M.**, Gillen, D.L., Grill, J.D. (2025). "Impact of Study Partner Replacement in Mild Cognitive Impairment Clinical Trials." *Alzheimer's & Dementia: Translational Research & Clinical Interventions*. <http://dx.doi.org/10.1002/trc2.70063>.
13. Tong, G., Nevins, P., **Ryan, M.M.**, Davis-Plourde, K., Ouyang, Y., Jules Pereira Macedo, J., Meng, C., Wang, X., Caille, A., Li, F., Taljaard, M. (2024). "A review of current practice in the design and analysis of extremely small stepped-wedge cluster randomized trials." *Clinical Trials*. <https://doi.org/10.1177/17407745241276137>.
12. Liu, R.*, Esserman, D., Li, F., **Ryan, M.M.** (2024). "Group sequential two-stage randomized preference trial designs." *Statistics in Medicine*. <http://dx.doi.org/10.1002/sim.9962>. Preprint available on arXiv: <https://doi.org/10.48550/arXiv.2310.11603>
11. Nevins, P., **Ryan, M.M.**, Davis-Plourde, K., Ouyang, Y., Pereira Macedo, J., Meng, C., Tong, G., Wang, X., Ortiz-Reyes, L., Caille, A., Li, F., Taljaard, M. (2023). "Adherence to key recommendations for design and analysis of Stepped-Wedge Cluster Randomized Trials: A Review of trials published 2016-2022." *Clinical Trials*. <https://doi.org/10.1177/17407745231208397>
10. **Ryan, M.M.**, Esserman, D., Li, F. (2023). "Maximin optimal cluster randomized designs for assessing treatment effect heterogeneity." *Statistics in Medicine*. <http://doi.org/10.1002/sim.9830>. Preprint available on arXiv: <https://doi.org/10.48550/arXiv.2302.09138>
9. Meng, C., **Ryan, M.M.**, Rathouz, P.J., Turner, E.L., Preisser, J.S., Li, F. (2023). "ORTH.Ord: an R package for analyzing correlated ordinal outcome using GEE with orthogonalized residuals and small-sample bias correction." *Computer Methods and Programs in Biomedicine*. <https://doi.org/10.1016/j.cmpb.2023.107567>

8. Nevins, P., Davis-Plourde, K., Pereira Macedo, J., Ouyang, Y., Meng, C., **Ryan, M. M.**, Tong, G., Wang, X., Ortiz Reyes, L.A., Caille, A., Li, F. and Taljaard, M. (2023). "A scoping review described diversity in methods of randomization and reporting of baseline balance in stepped-wedge cluster randomized trials." *Journal of Clinical Epidemiology*. <https://doi.org/10.1016/j.jclinepi.2023.03.010>
7. **Ryan, M.M.**, Gillen, D.L. (2023) "Sequential Sampling in Prospective Observational Studies." *Annals of Applied Statistics*. <https://doi.org/10.1214/22-AOAS1620>
6. **Ryan, M.M.**, Gillen, D.L., Grill, J.D. (2021). "Reasons for Undergoing Amyloid Imaging Among Cognitively Unimpaired Older Adults with Elevated and Not Elevated Amyloid." *Annals of Clinical and Translational Neurology*. <https://doi.org/10.1002/acn3.51414>
5. **Ryan, M.M.**, Cox, C.G., Witbracht, M., Hoang, D., Gillen, D.L., Grill, J.D. (2020). "Using Direct-to-Consumer Genetic Testing Results to Accelerate Alzheimer's Disease Clinical Trial Recruitment." *Alzheimer Disease & Associated Disorders*. <https://doi.org/10.1097/wad.0000000000000421>
4. Cox, C.G., **Ryan, M.M.**, Gillen, D.L., Grill, J.D. (2020). "Is reluctance to share Alzheimer's disease biomarker status with a study partner a barrier to preclinical trial recruitment?" *The Journal of Prevention of Alzheimer's Disease*. [dx.doi.org/10.14283/jpad.2020.36](https://doi.org/10.14283/jpad.2020.36)
3. **Ryan, M.M.**, Spotnitz, W.D., Gillen, D.L. (2020). "Variance estimation for the Kappa statistic in the presence of clustered data and heterogeneous observations." *Statistics in Medicine*. <https://doi.org/10.1002/sim.8522>
2. **Ryan, M.M.**, Grill, J.D., Gillen, D.L. (2019). "Participant and Study Partner Prediction and Identification of Cognitive Impairment in Preclinical Alzheimer's Disease: Study Partner vs. Participant Accuracy." *Alzheimer's Research & Therapy*. <https://doi.org/10.1186/s13195-019-0539-3>
1. Cox, C.G., **Ryan, M.M.**, Gillen, D.L., Grill, J.D. (2019). "A preliminary study of clinical trial enrollment decisions among people with Mild Cognitive Impairment and their study partners." *The American Journal of Geriatric Psychiatry*. <https://doi.org/10.1016/j.jagp.2018.10.016>

MANUSCRIPTS UNDER REVIEW/IN PROGRESS

2. Afshar, M., Resnik, F., **Ryan Baumann, M.**, . . . , Gordon, J. "A Novel Playbook for Pragmatic Trial Operations to Monitor and Evaluate Ambient Artificial Intelligence in Clinical Practice." (Resubmitted April 2025). medRxiv preprint: <https://doi.org/10.1101/2024.12.27.24319685>
1. **Ryan Baumann, M.**, Taljaard, M., Heagerty, P.J., Harhay, M.O., Wang, R., Li, F. "A tutorial on conducting sample size and power calculation for detecting treatment effect heterogeneity in cluster randomized trials." (Resubmitted March 2025). arXiv preprint: <https://doi.org/10.48550/arXiv.2501.18383>

SELECTED PRESENTATIONS, POSTERS, & SHORT COURSES

INVITED PRESENTATIONS

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| April 2025 | 54. Clinical Trials Community of Practice, University of Wisconsin - Madison (Madison, WI; Virtual). Presentation. <i>"Pragmatic Clinical Trials: What, Why, and How"</i> |
| March 2025 | 53. Eastern North American Region International Biometric Society (ENAR) Annual Meeting (New Orleans, LA). Presentation. <i>"Combating ICC uncertainty with maximin optimal cluster randomized designs"</i> |
| February 2025 | 52. University of Southern California, Division of Biostatistics (Virtual). Seminar. <i>"Cluster randomized and stepped-wedge trials: design issues and tools"</i> |
| January 2025 | 51. Kaiser Permanente Washington Health Research Institute (Virtual). Seminar. <i>"Cluster randomized and stepped-wedge trials: design issues and tools"</i> |
| | 50. International Conference on Health Policy Statistics (San Diego, CA). Presentation. <i>"Designing cluster randomized trials to detect treatment effect heterogeneity"</i> |
| September 2024 | 49. NIH Collaboratory Biostatistics Core Meeting, National Institutes of Health (Virtual). Presentation. <i>"A web application for planning cluster randomized trials to detect treatment effect heterogeneity"</i> |
| June 2024 | 48. Western North American Region International Biometric Society (WNAR) Annual Meeting (Fort Collins, CO). Presentation. <i>"Combating ICC uncertainty with maximin optimal cluster randomized designs"</i> |
| April 2024 | 47. Department of Statistics, University of Wisconsin - Madison (Madison, WI). Seminar. <i>"Powering cross-sectional stepped wedge cluster randomized trials for a time-to-event endpoints"</i> |
| | 46. StatShare Group, University of Wisconsin - Madison (Madison, WI; Virtual). Presentation. <i>"The current landscape of stepped-wedge randomized trials"</i> |
| February 2024 | 45. Pennsylvania State University, Division of Biostatistics & Bioinformatics Student-Led Seminar Series (Virtual). Seminar. <i>"Pragmatic cluster trials: a statistical perspective"</i> |
| October 2023 | 44. Being Significant: 60 Years of Mizzou Statistics (Columbia, MO). Presentation on <i>"Power calculation for cross-sectional stepped wedge cluster randomized trials with time-to-event endpoints"</i> |
| September 2023 | 43. 2023 Orange County Biostatistics Symposium (Irvine, CA). Presentation on <i>"Sequential Sampling in Prospective Observational Studies"</i> |
| | 42. Department of Population Health Sciences, University of Wisconsin-Madison Seminar Series (Madison, WI). Seminar. <i>"Sequential Sampling in Prospective Observational Studies"</i> |

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| March 2023 | 41. Department of Mathematics & Statistics, University of Massachusetts Amherst (Amherst, MA). Seminar. <i>"Maximin optimal cluster randomized designs for assessing treatment effect heterogeneity"</i> |
| | 40. Department of Biostatistics, Epidemiology and Informatics, University of Pennsylvania Perelman School of Medicine (Philadelphia, PA). Seminar. <i>"Design & analysis of cross-sectional stepped wedge cluster randomized trials with time-to-event endpoints"</i> |
| February 2023 | 39. Department of Biostatistics, University of Florida (Gainesville, FL). Seminar. <i>"Design & analysis of cross-sectional stepped wedge cluster randomized trials with time-to-event endpoints"</i> |
| January 2023 | 38. Departments of Population Health Sciences and Biostatistics & Medical Informatics, University of Wisconsin-Madison (Madison, WI). Seminar. <i>"Design & analysis of cross-sectional stepped wedge cluster randomized trials with time-to-event endpoints"</i> |
| | 37. Department of Epidemiology & Biostatistics, University of South Carolina (Columbia, SC). Seminar. <i>"Design & analysis of cross-sectional stepped wedge cluster randomized trials with time-to-event endpoints"</i> |
| | 36. Rutgers Cancer Institute of New Jersey (Virtual). Seminar. <i>"Design & analysis of cross-sectional stepped wedge cluster randomized trials with time-to-event endpoints"</i> |
| | 35. Department of Biostatistics, University of Washington (Virtual). Seminar. <i>"Design & analysis of cross-sectional stepped wedge cluster randomized trials with time-to-event endpoints"</i> |
| | 34. Department of Epidemiology & Biostatistics, Michigan State University (Virtual). Seminar. <i>"Design & analysis of cross-sectional stepped wedge cluster randomized trials with time-to-event endpoints"</i> |
| | 33. Department of Biostatistics & Health Data Science, Indiana University School of Medicine (Indianapolis, IN). Seminar. <i>"Design & analysis of cross-sectional stepped wedge cluster randomized trials with time-to-event endpoints"</i> |
| | 32. Department of Biostatistics & Informatics, Colorado School of Public Health (Virtual). Seminar. <i>"Design & analysis of cross-sectional stepped wedge cluster randomized trials with time-to-event endpoints"</i> |
| | 31. Department of Biostatistics & Data Science, Wake Forest University (Virtual). Seminar. <i>"Design & analysis of cross-sectional stepped wedge cluster randomized trials with time-to-event endpoints"</i> |
| November 2022 | 30. Department of Mathematics & Statistics, University of Otago (Virtual). Seminar. <i>"Design & analysis of cross-sectional stepped wedge cluster randomized trials with time-to-event endpoints"</i> |

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| | 29. Department of Epidemiology & Biostatistics, Temple University (Philadelphia, PA). Seminar. <i>"Design & analysis of cross-sectional stepped wedge cluster randomized trials with time-to-event endpoints"</i> |
| April 2021 | 28. ASQ Silicon Valley Section's Statistics & Reliability Discussion Group (Virtual). Presentation on <i>"Variance Estimation for the Kappa Statistic in the Presence of Clustered Data and Heterogeneous Observations"</i> |
| February 2021 | 27. Department of Family Medicine, Oregon Health & Science University (Virtual). Seminar. <i>"Sequential Sampling in Prospective Observational Studies"</i> |
| | 26. Department of Global & Community Health, George Mason University (Virtual). Seminar. <i>"Sequential Sampling in Prospective Observational Studies"</i> |
| | 25. Department of Biostatistics, Wake Forest University (Virtual). Seminar. <i>"Sequential Sampling in Prospective Observational Studies"</i> |
| | 24. Division of Biostatistics, University of Minnesota (Virtual). Seminar. <i>"Sequential Sampling in Prospective Observational Studies"</i> |
| January 2021 | 23. Department of Mathematics & Statistics, Wake Forest University (Virtual). Seminar. <i>"Sequential Sampling in Prospective Observational Studies"</i> |
| | 22. American Statistical Association Biopharmaceutical Section Webinar (Virtual). Seminar. <i>"Variance Estimation for the Kappa Statistic in the Presence of Clustered Data and Heterogeneous Observations"</i> |
| | 21. Department of Biostatistics, St. Jude Children's Research Hospital (Virtual). Seminar. <i>"On Confounding, Efficiency, & Prospective Observational Study Design"</i> |
| December 2020 | 20. Department of Biostatistics, Vanderbilt University (Virtual). Seminar. <i>"On Confounding, Efficiency, & Prospective Observational Study Design"</i> |
| November 2020 | 19. Orange County Biostatistics Symposium (Virtual). Seminar. <i>"Variance Estimation for the Kappa Statistic in the Presence of Clustered Data and Heterogeneous Observations"</i> |

CONTRIBUTED PRESENTATIONS

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| August 2024 | 18. Joint Statistical Meetings (JSM) (Portland, OR). Presentation. <i>"Comparing cross-sectional stepped-wedge and cluster randomized trials with time-to-event endpoints"</i> |
| May 2023 | 17. Society for Clinical Trials (Baltimore, MD). Presentation on <i>"Power calculation for cross-sectional stepped wedge cluster randomized trials with a time-to-event endpoint"</i> |
| March 2023 | 16. Eastern North American Region International Biometric Society (ENAR) Annual Meeting (Nashville, TN). Presentation on <i>"Power calculation for cross-sectional stepped wedge cluster randomized trials with a time-to-event endpoint"</i> |

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- November 2022 15. **Current Development in Cluster Randomised Trials and Stepped Wedge Designs** (Virtual/London, UK). Presentation on *"Power calculation for cross-sectional stepped wedge cluster randomized trials with a time-to-event endpoint"*
- August 2022 14. **Joint Statistical Meetings (JSM)** (Washington, D.C.). Presentation on *"Maximin Optimal Cluster Randomized Designs for Assessing Treatment Effect Heterogeneity"*
- May 2022 13. **Society for Clinical Trials** (San Diego, CA). Presentation on *"Maximin Optimal Cluster Randomized Designs Accounting for Treatment Effect Heterogeneity"*
- July 2019 12. **Joint Statistical Meetings (JSM)** (Denver, CO). Presentation on *"An Extension of Cohen's Kappa for Clustered Data and Group Sequential Testing"*
★ Received JSM Contributed Presentation Honorable Mention Award from ASA Biopharmaceutical Section
11. **Western North American Region International Biometric Society (WNAR) Annual Meeting** (Portland, OR). Presentation on *"An Investigation of the Kappa Statistic Under Clustered Data and Group Sequential Testing, with an Application to Surgical Rating"*

POSTERS

- April 2025 10. **Alzheimer's Disease and Related Dementias Research Day** (Madison, WI). Poster. *"Accelerated Phenotypical Aging in Midlife is Associated with Long-Term Cognitive Decline in Middle-Aged Adults"*
- November 2023 9. **Clinical Trials in Alzheimer's Disease (CTAD)** (Boston, MA). Poster. *"Impact of study partner type on primary endpoint volatility in two phase 3 registration trials of mild-to-moderate Alzheimer's disease"*
- July 2022 8. **Alzheimer's Association International Conference (AAIC)** (Virtual/San Diego, CA). Poster. *"Impact of Study Partner Type on Primary Endpoint Volatility in a Phase 3 Registration Trial of Mild-to-Moderate Alzheimer's Disease"*
- November 2021 7. **Clinical Trials on Alzheimer's Disease (CTAD)** (Virtual). Poster. *"Perceptions of Amyloid Imaging Among Cognitively Normal Older Adults with Elevated and Not Elevated Amyloid"*
- December 2019 6. **Clinical Trials on Alzheimer's Disease (CTAD)** (San Diego, CA). Poster. *"Using Direct-to-Consumer Genetic Testing Results in Alzheimer's Disease Clinical Trial Recruitment"*
- July 2019 5. **Alzheimer's Association International Conference (AAIC)** (Los Angeles, CA). Poster. *"Participant and Study Partner Prediction and Identification of Cognitive Impairment in Preclinical Alzheimer's Disease: Study Partner vs. Participant Accuracy"*
- March 2018 4. **REMIND Emerging Scientists Symposium** (Irvine, CA). Poster. *"Scientific Necessity of Study Partners in Preclinical Alzheimer's Disease Trials"*

SHORT COURSES & WORKSHOPS

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| March 2019 | 3. Computer-Assisted Reporting Conference (Newport Beach, CA). Workshop on " <i>R: Models for Clustered and Correlated Data</i> " |
| | 2. Computer-Assisted Reporting Conference (Newport Beach, CA). Workshop on " <i>Building Graphics in R</i> " |
| March 2018 | 1. Computer-Assisted Reporting Conference (Chicago, IL). Workshop on " <i>R: Machine Learning and Data Models</i> " |

TEACHING EXPERIENCE

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| Fall 2024 | *Faculty Instructor, Advanced Regression for Population Health
(Face-to-Face)
<i>75 minute, twice weekly lecture; 12 graduate and medical students</i>
Department of Population Health Sciences
University of Wisconsin - Madison (Madison, WI) |
| Summer 2020 | *Instructor of Record, Basic Statistics (Virtual)
<i>3-hour, twice weekly lecture; approx. 80 undergraduate students</i>
Department of Statistics
University of California, Irvine (Irvine, CA) |
| Winter 2020 | Teaching Assistant, Introduction to Biological Statistics (Face-to-Face)
<i>Two, 1-hour weekly lab sections; approx. 35 undergraduate students each</i>
Department of Statistics
University of California, Irvine (Irvine, CA) |
| Fall 2019 | Teaching Assistant, Introduction to Probability & Statistics for Computer Science (Face-to-Face)
<i>Two, 1-hour weekly lab sections; approx. 50 undergraduate students each</i>
Department of Statistics
University of California, Irvine (Irvine, CA) |
| Summer 2017 | *Instructor of Record, Introduction to Biological Statistics (Face-to-Face)
<i>1.5-hour, thrice weekly lecture; approx. 36 undergraduate students</i>
Department of Statistics
University of California, Irvine (Irvine, CA) |
| Spring 2016 | Teaching Assistant, Advanced Data Journalism (Face-to-Face)
Missouri School of Journalism
University of Missouri (Columbia, MO) |

ACADEMIC AWARDS & HONORS

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| 2025 | Outstanding Instructor Award
Department of Population Health Sciences, University of Wisconsin- Madison |
| 2021 | Carl W. Cotman Predoctoral Scholar Award |

	University of California, Irvine
2020	Nominee to the 70th Lindau Nobel Laureate Meeting University of California System
2020	Division of Teaching Excellence & Innovation Summer Fellow University of California, Irvine
2019 - 2020	UCI Public Impact Fellow University of California, Irvine
2019	Honorable Mention: JSM Biopharmaceutical Section Contributed Presentation Award American Statistical Association, Biopharmaceutical Section
2017 - 2019	MIND Aging Fellow University of California, Irvine Institute for Memory Impairments and Neurological Disorders
2016	University Honors University of Missouri
2015	Excellence in Undergraduate Research Award University of Missouri
2013 - 2016	Albert Winemiller Scholar Department of Statistics, University of Missouri

PEER REVIEW ACTIVITIES

2025 - present	BMJ Open
	Annals of Applied Statistics
2024 - present	Journal of the National Cancer Institute Monographs
	Environmental Health Perspectives
	Alzheimer's & Dementia
2023 - present	Nature Communications
	Communications in Statistics - Theory and Methods
	Alzheimer's Research & Therapy
2022 - present	Statistics in Medicine
	Statistics in Biopharmaceutical Research
	Clinical Trials

SERVICE TO PROFESSION

COMMITTEE SERVICE

- 2025 - present **Associate Editor (Equity, Inclusion, & Diversity)**
Journal for Statistics and Data Science Education
- 2024 **Co-Chair, Students & Young Professional Committee**
Justice, Equity, Diversity, and Inclusion (JEDI) Outreach Group
- 2023 - present **Editorial Board Member**
Significance Magazine
- 2022 - present **Social Media Manager, Instagram**
Justice, Equity, Diversity, and Inclusion (JEDI) Outreach Group
- 2022 - present **Organizing Committee Member**
COPSS-NISS Leadership Webinar Series

CONFERENCE SERVICE

- August 2024 **Topic Contributed Session Chair**
Joint Statistical Meetings (Portland, OR)
- June 2024 **Invited Session Co-Organizer**
Western North American Region International Biometric Society Annual Meeting (Fort Collins, CO)
- May 2023 **Contributed Session Moderator**
Society for Clinical Trials (Baltimore, MD)
- August 2022 **Topic Contributed Session Chair**
Joint Statistical Meetings (Washington, D.C.)

INSTITUTIONAL SERVICE

- 2023 - present **Population Health Sciences Senator Alternate**, University of Wisconsin -
Madison Faculty Senate
University of Wisconsin-Madison (Madison, WI)
- 2023 - present **Member**, Department of Population Health Sciences Curriculum Committee
University of Wisconsin-Madison (Madison, WI)
- 2020 - 2021 **Student Representative**, Department of Statistics Seminar Committee
University of California, Irvine (Irvine, CA)
- 2019 - 2021 **Department of Statistics Student Representative**, Diverse Educational Com-
munity and Doctoral Experience (DECADE)
University of California, Irvine (Irvine, CA)
- 2019 - 2021 **Organizer**, Department of Statistics NSF GRFP Application Repository
University of California, Irvine (Irvine, CA)

- 2018-2021 **Co-Chair**, Research and Education in Memory Impairments and Neurological Disorders (REMIND)
University of California, Irvine (Irvine, CA)
- 2017 - 2018 **Student Representative & Liason**, Department of Statistics
University of California, Irvine (Irvine, CA)

COMMUNITY INVOLVEMENT & OUTREACH

- July - Aug 2022 **Statistics & R Instructor** for YCAS Young Scholars in Biostatistics Program (New Haven, CT)
- July 2022 **Guest Lecturer** on the topic "*Introduction to Data Science*". YCAS Young Scholars in Biostatistics Program (New Haven, CT)
- July 2022 **Workshop Instructor** for the class "*STEM Meets Storytelling: Using Data Science to Tell Stories about Our Communities*". Pathways to Science Summer Scholars (New Haven, CT)
- March 2022 **Guest Lecturer** on the topic "*Data and Me: What is Biostatistics and How Do We Use It?*". Exploring Science Seminar Series (New Haven, CT)

PROFESSIONAL ORGANIZATIONS

- 2022 - present Justice, Equity, Diversity, and Inclusion (JEDI) Outreach Group, Member
- 2022 - present Society for Clinical Trials, Member
- 2021 - present Eastern North American Region of the International Biometrics Society (ENAR), Member
- 2020 - present Caucus for Women in Statistics, Member
- 2019 - present ISTAART, Alzheimer's Association, Member
- 2018 - present American Statistical Association, Member
- 2019 - 2021 Western North American Region of the International Biometrics Society (WNAR), Member

STATISTICAL & PROGRAMMING LANGUAGES

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| R | Python | SAS |
| SQL | HTML/CSS | |