

Rebecca A. Deek

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University of Pittsburgh
Dept of Biostatistics and Health Data Science
Pittsburgh, PA 15261

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Education

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|-----------|--|------------------|
| 2018-2023 | PhD in Biostatistics University of Pennsylvania, Perelman School of Medicine Advisor: Hongzhe Li Committee: Mingyao Li (Chair), Jing Huang, and Ronald G. Collman | Philadelphia, PA |
| 2016-2018 | MS in Biostatistics Columbia University, Mailman School of Public Health | New York, NY |
| 2013-2016 | BS in Biological Sciences New Jersey Institute of Technology, Albert Dorman Honors College Rutgers University | Newark, NJ |

Professional appointments

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|--------------|--|------------------|
| 2023-Present | Assistant Professor Department of Biostatistics and Health Data Science School of Public Health University of Pittsburgh | Pittsburgh, PA |
| 2018-2023 | Graduate Research Assistant Department of Biostatistics, Epidemiology, & Informatics Perelman School of Medicine University of Pennsylvania | Philadelphia, PA |
| 2017-2018 | Graduate Research Assistant Department of Natural Sciences School of Arts and Sciences Lebanese American University | Byblos, LB |

Honors & awards

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| 2022 | Best Poster Award Penn Conference on Big Data in Biomedical and Population Health Sciences |
| 2016-2018 | Hu Family Scholarship Columbia University |
| 2016 | President's Medal for Academic Excellence New Jersey Institute of Technology |
| 2016 | Outstanding Honors Research Award NJIT Albert Dorman Honors College |
| 2015 | Leadership Service Award NJIT Albert Dorman Honors College |

2013-2016 Full Merit Scholarship
NJIT Albert Dorman Honors College

Funding

ACTIVE

- 2025-2026 University of Pittsburgh Trans-disciplinary Collaboration Pilot Award: "Identifying inflammatory biomarkers of dementia via multimodal integration of neuroimaging & omics data"
Role: Principal Investigator (MPI: Deek R and Iordanova B)
- 2025-2030 NIH P30: "Alzheimer's Disease Research Center"
Role: Co-investigator, 5% FTE. (PI: Lopez O)
- 2024-2027 MWRI Magee Prize: "EGFL6 - A link between obesity, high-risk endometrial cancer, and racial disparities"
Role: Co-investigator, 8% FTE. (PI: Buckanovich R)
- 2023-2028 NIH R01AG083874: "Plasma brain-derived tau: A novel Alzheimer's disease-type neurodegeneration biomarker with potential to complete the AT(N) scheme in blood"
Role: Co-investigator, 20% FTE. (PI: Karikari T)
- 2023-2028 NIH P50CA272218: "HCC Ovarian Cancer SPORE"
Role: Co-investigator, 12% FTE. (MPI: Buckanovich R and Edwards R)

Publications

- * Advisee/mentee
† Co-first author
§ Corresponding/senior author

STATISTICAL METHODOLOGY

1. Yan B, Nam Y, Li L, **Deek RA**, Li H, and Ma S. Recent advances in deep learning and language models for studying the microbiome. *Frontiers in Genetics* 15 (2025): 1494474.
2. Little A, **Deek RA**, Zhang A, Zhao N, Ling W, and Wu MC. Enhanced visualization of microbiome data in repeated measures designs. *Frontiers in Genetics* 15 (2024): 1480972.
3. **Deek RA**, Ma S, Lewis J, and Li H. Statistical and computational methods for integrating microbiome, host genomics, and metabolomics data. *eLife* 13 (2024): e88956.
4. **Deek RA** and Li H. Inference of microbial covariation networks using copula models with mixture margins. *Bioinformatics* 39, no. 7 (2023): btad413.
5. **Deek RA** and Li H. A zero-inflated latent dirichlet allocation model for microbiome studies. *Frontiers in Genetics* 11 (2021): 602594.
6. Chen J[†], King E[†], **Deek R[†]**, Wei Z, Yu Y, Grill D, and Ballman K. An omnibus test for differential distribution analysis of microbiome sequencing data. *Bioinformatics* 34, no. 4 (2018): 643–651.

COLLABORATIVE

1. Whiteside SA, McGinniss JE, **Deek RA**, Merenstein C, Britton N, Simon-Soro A, Oyster M, Kalman L, Brown MC, Graham-Wooten J, McDyer JF, Shah P, D'Alessio F, Cantu E, Clausen ES, Li H, Diamond JM, Bushman FD, Christie JD, and Collman RG. Lung transplant for CF: Low lung bacterial burden and immune mediators in year one associate with clad development. *Journal of Cystic Fibrosis* (2025): S1569199325024865.

2. Krsmanovic G*, Deek RA[§], and Deek FP[§]. The Development and Maintenance of Thinking Processes and Learning Abilities in the Era of Artificial Intelligence. *Computer* 58, no. 9 (2025): 80–90.
3. Deek RA, Kim J, Kumar R, Medina B, Langenfeld J, Kontopidis I, Lazzaro R, Nie K, Hathout L, Guler O, Onal C, Patel E, Haigentz M, Jabbour SK, and Deek MP. Clinical and Genomic Features and Prognostic Biomarkers of Oligometastatic Nonsmall Cell Lung Cancer. *Clinical Lung Cancer* (2025): S1525730425001536.
4. Carlson KM, Abdul-Rahman N.-H, Deek RA, Cennane A, Cai W, Demanelis K, Zandberg DP, Contrera KJ, Zevallos JP, Martinson J, and Mazul AL. Trends in Human Papillomavirus Testing Among Patients With Oropharyngeal Cancer. *JAMA Network Open* 8, no. 7 (2025): e2523917.
5. Sehrawat A, Zeng X, Abrahamson EE, Deek RA, Gogola A, Kamboh MI, Pascoal TA, Villemagne VL, Lopez OL, Ikonomovic MD, Snitz BE, Cohen AD, and Karikari TK. Pittsburgh plasma p-tau₂₁₇: Classification accuracies for autosomal dominant and sporadic Alzheimer's disease in the community. *Alzheimer's & Dementia* 21, no. 7 (2025): e70409.
6. Duan H, Ren J, Wei S, Yang Z, Li C, Wang Z, Li M, Wei Z, Liu Y, Wang X, Lan H, Zeng Z, Xie M, Xie Y, Wu S, Hu W, Guo C, Zhang X, Liang L, Yu C, Mou Y, Jiang Y, Li H, Sugarman E, Deek RA, Chen Z, Li T, Chen Y, Yao M, Chen L, Liu L, Zhang G, and Mou Y. Integrated analyses of multi-omic data derived from paired primary lung cancer and brain metastasis reveal the metabolic vulnerability as a novel therapeutic target. *Genome Medicine* 16, no. 1 (2024): 138.
7. Wang T, Kim J, Kumar R, Deek RA, Stephenson R, Mayer T, Saraiya B, Ghodoussipour S, Jang T, Golombos D, Packiam V, Ennis R, Hathout L, Jabbour SK, Guler O, Onal C, and Deek MP. Landscape and prognostic significance of oncogene drivers in metastatic castration sensitive prostate cancer. *Translational Cancer Research* 13, no. 11 (2024): 6235–6245.
8. Sutera P, Kim J, Kumar R, Deek RA, Stephenson R, Mayer T, Saraiya B, Ghodoussipour S, Jang T, Golombos D, Packiam V, Ennis R, Hathout L, Jabbour SK, Guler O, Onal C, Tran PT, and Deek MP. PIK3/Akt/mTOR pathway alterations in metastatic castration-sensitive prostate cancer. *The Prostate* 84, no. 14 (2024): 1301–1308.
9. Sutera P[†], Deek MP[†], Deek RA, Guler OC, Hurmuz P, Reyhan M, Rowe S, Radwan N, Dipasquale S, Hrinivich WT, Lowe K, Ren L, Saraiya B, Ennis R, Hathout L, Mayer T, Deweese TL, Song DY, Kiess A, Oymak E, Pienta K, Feng F, Pomper M, Ozyigit G, Tran PT, Onal C, and Phillips RM. Prostate-Specific Membrane Antigen PET Response Associates with Metastasis-Free Survival After Stereotactic Ablative Radiation in Oligometastatic Prostate Cancer. *Advances in Radiation Oncology* 9, no. 7 (2024): 101507.
10. Deek AJ, Deek RA, Clegg DJ, Blackburn C, Holley T, and Gotcher JE. To what extent do oral and maxillofacial surgery residents suffer from imposter syndrome? *Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology* 138, no. 1 (2024): 21–27.
11. Deek AJ, Clegg DJ, Deek RA, Blackburn C, Scott CA, Holley T, and Gotcher JE. Risk Factors for Pediatric Facial Trauma in an Appalachian Region: An Epidemiological Review at a Single Institution. *Journal of Oral and Maxillofacial Surgery* 82, no. 3 (2024): 306–313.
12. Khullar K, Deek RA, Nelson B, Gaines D, Corrigan KL, LeCompte MC, Deville C, Deek MP, and Jabbour SK. Gender and the Receipt of the Association of Residents in Radiation Oncology Educator of the Year Award. *Advances in Radiation Oncology* 9, no. 1 (2024): 101305.
13. McGinniss JE, Whiteside SA, Deek RA, Simon-Soro A, Graham-Wooten J, Oyster M, Brown MD, Cantu E, Diamond JM, Li H, Christie JD, Bushman FD, and Collman RG. The Lung Allograft Microbiome Associates with Pepsin, Inflammation, and Primary Graft Dysfunction. *American Journal of Respiratory and Critical Care Medicine* 206, no. 12 (2022): 1508–1521.

14. Deek MP[†], Van Der Eecken K[†], Sutera P, **Deek RA**, Fonteyne V, Mendes AA, Decaestecker K, Kiess AP, Lumen N, Phillips R, De Bruycker A, Mishra M, Rana Z, Molitoris J, Lambert B, Delrue L, Wang H, Lowe K, Verbeke S, Van Dorpe J, Bultijnck R, Villeirs G, De Man K, Ameye F, Song DY, DeWeese T, Paller CJ, Feng FY, Wyatt A, Pienta KJ, Diehn M, Bentzen SM, Joniau S, Vanhaverbeke F, De Meerleer G, Antonarakis ES, Lotan TL, Berlin A, Siva S, Ost P, and Tran PT. Long-Term Outcomes and Genetic Predictors of Response to Metastasis-Directed Therapy Versus Observation in Oligometastatic Prostate Cancer: Analysis of STOMP and ORIOLE Trials. *Journal of Clinical Oncology* 40, no. 29 (2022): 3377–3382.
15. Wei S, Yin D, Yu S, Lin X, Savani MR, Du K, Ku Y, Wu D, Li S, Liu H, Tian M, Chen Y, Bowie M, Hariharan S, Waitkus M, Keir ST, Sugarman ET, **Deek RA**, Labrie M, Khasraw M, Lu Y, Mills GB, Herlyn M, Wu K, Liu L, Wei Z, Flaherty KT, Abdullah K, Zhang G, and Ashley DM. Antitumor Activity of a Mitochondrial-Targeted HSP90 Inhibitor in Gliomas. *Clinical Cancer Research* 28, no. 10 (2022): 2180–2195.
16. **Deek R**[†], Nasser J[†], Ghanem A[†], Mardelli M[†], Khazen G, Salloum AK, Abchee A, Ghassibe-Sabbagh M, and Zalloua P. Genome-wide association analysis of HDL-C in a Lebanese cohort. *PLOS ONE* 14, no. 6 (2019): e0218443.

PUBLISHED PROCEEDINGS AND COLUMNS

1. **Tommarello ND*** and **Deek RA**[§]. (2024). The Convergence of the Internet of Things and Artificial Intelligence in Medicine: Assessing the Benefits, Challenges, and Risks. *Computer*, 57(2), 95-99.
2. **Deek R**. (2015). Lessons From Nature: Defensive Designs for the Built Environment. *In 5th International Conference on Building Resilience*.

UNDER REVIEW AND PREPRINTS

1. Brodman ST, **Heaton N**^{*}, Triana-Baltzer G, Zeng X, Gogola A, Kamboh MI, Villemagne VL, Lopez OL, Kolb H, **Deek RA**, Cohen AD[§], Karikari TK[§]. Plasma biomarkers, brain amyloid pathology, and cortical thickness in a diverse middle-aged community cohort: the HCP-CoBRA study. *Accepted in Alzheimer's & Dementia*.
2. **Zang C**^{*}, Tang L, **Deek RA**[§]. Supervised and covariate adjusted principal coordinates analysis for visualization and prediction using microbiome data. *Under review*.
3. **Deek RA**. Distance-based mutual information test of multivariate association in microbiome multiomics studies. *Under review*.
4. **Zang C**^{*}, **Deek RA**[§], Tang L[§]. Supervised matrix factorization for estimating individualized treatment rule: Incorporating medical notes in decision making. *In revision*.
5. **Deek RA**[†], Xue F[†], Lewis JD, Li H. Estimation and false discovery control of multivariate causal effects in omics studies. *In revision*.
6. **Deek RA**, Balogun WG, Zeng X, Triana-Baltzer G, Pascoal TA, Kolb HC, Snitz B, Cohen AD, Karikari TK. Head-to-head comparison of plasma p-tau₂₁₇ immunoassays for incipient Alzheimer's disease in community cohorts. *In revision*.
7. Carlson KM, Owoc MS, Nilsen ML, Mowery YM, **Deek RA**, Contrera K, Ridge-Hetrick J, Osazuwa-Peters N, Zandberg DP, Stinnett S, Johnson J, Mazul AL. Clinical and sociodemographic determinants of sustained head and neck cancer survivorship clinic attendance. *Under review*.
8. Schweitzer N, Shen Y, Zhao Y, Cover CG, Alam MS, **Deek RA**, Aizenstein HJ, Wu M, Koldamova R, Vazquez AL, Fitz NF, Iordanova B. Linking trajectories of cerebrovascular remodeling and dysfunction to cross-species brain vessel transcriptome in Alzheimer's disease. *Under review*.
9. Grizzanti J, Zhang Y, **Deek RA**, Lafferty TK, Jacobsen E, Bellaver B, Ferreira PCL, Zeng X, Chang CH, Pascoal TA, Snitz BE, Villemagne VL, Ganguli M, Karikari TK. Sex-dependent association

- between diabetes status and Alzheimer's disease plasma biomarkers in a population-based cohort. *In revision.*
- io. Sun J, Fan Z, Sriram A, **Deek RA**, Kim S, Park HJ. Unveiling the gut microbiome network fingerprint: A deep learning approach to predict immunotherapy response in melanoma patients. *In revision.*
 - ii. **Deek RA** and Li H. Mixture margin random-effects copula models for inferring temporally conserved microbial covariation networks from longitudinal data. *In revision.*

SOFTWARE

1. CoMiCoN: An R package for two-stage inference and network analysis of bivariate mixture margin copula models. Creator and core developer.
2. zinLDA: An R package for MCMC implementation of zero-inflated latent Dirichlet allocation models for microbiome studies. Creator and core developer.

Presentations

INVITED PRESENTATIONS

1. *Supervised dimensional reduction for visualization and prediction with microbiome data.* CM-Statistics 2025. London, United Kingdom. December 2025.
2. *Large language models for molecular biology.* 16th ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM-BCB 2025). Philadelphia, PA, USA. October 2025.
3. *Benchmarking and improving statistical methods for microbiome multiomics integration.* BIRS Workshop on Novel Statistical Approaches for Studying Multi-omics Data. Banff, Canada. July 2025.
4. *Supervised dimensionality reduction and visualization of microbiome data.* ENAR 2025. New Orleans, LA, USA. March 2025.
5. *Joint estimation and false discovery control of causal effects in metabolomics randomized trials.* CM-Statistics 2024. London, United Kingdom. December 2024.
6. *A copula model framework for estimating microbial covariation networks.* JSM 2024. Portland, OR, USA. August 2024.
7. *Estimating temporally conserved microbial covariation networks from longitudinal data.* STAT-GEN 2024. Pittsburgh, PA, USA. May 2024.
8. *Statistical and computational methods for integrating microbiome and host omics data.* CMStatistics 2023. Berlin, Germany. December 2023.
9. *Statistical and computational methods for integrating microbiome and host omics data.* Women in Statistics and Data Science 2023. Bellevue, WA, USA. October 2023.
10. *Statistical and computational methods for integrating microbiome and host omics data.* JSM 2023. Toronto, ON, Canada. August 2023.
- ii. *Microbial covariation discovery using mixture margin copula models.* IMS 2022. London, UK. June 2022.
12. *Methods for inference of microbial interactions using copula models with mixture margins.* JSM 2020. Philadelphia, PA, USA (Virtual due to COVID-19). August 2020.

INVITED SEMINARS

1. *Improving visualization and prediction with microbiome data through supervised dimension reduction.* Department of Human Genetics Seminar. University of Pittsburgh. Pittsburgh, PA, USA. December 2025.

2. *Modeling complex dependency and network structures in zero-inflated metagenomic sequencing data.* Institute for Healthcare Delivery Science Seminar. Icahn School of Medicine at Mount Sinai. New York, NY, USA. November 2024.
3. *Mixture margin copula models for inferring covariation networks with applications in metagenomics.* Department of Statistics Seminar. University of Pittsburgh. Pittsburgh, PA, USA. September 2024.
4. *Advances in statistical methods for metagenomic sequencing data analysis.* Basic and Translational Research in Lung Diseases Seminar. Department of Medicine. University of Pittsburgh. Pittsburgh, PA, USA. April 2024.
5. *Advances in statistical methods for metagenomic sequencing data analysis.* Department of Orthopedics Seminar. University of Pittsburgh. Pittsburgh, PA, USA. March 2024.
6. *Mixture margin copula models for inferring covariation networks with applications in microbiome and single cell genomics.* University of Georgia. Athens, GA, USA. January 2023.
7. *Mixture margin copula models for inferring covariation networks with applications in microbiome and single cell genomics.* Rutgers University. New Brunswick, NJ, USA (Virtual). January 2023.
8. *Mixture margin copula models for inferring covariation networks with applications in microbiome and single cell genomics.* University of Pittsburgh. Pittsburgh, PA, USA. December 2022.
9. *Mixture margin copula models for inferring covariation networks with applications in microbiome and single cell genomics.* The College of New Jersey. Ewing, NJ, USA. December 2022.
10. *Inferring microbial cooccurrence from sequencing data.* NIEHS BCBB Seminar. Research Triangle, NC, USA (Virtual). April 2022.

CONTRIBUTED PRESENTATIONS

1. *Statistical and computational approaches for estimating microbial covariation networks.* Rust Belt Microbiome 2024. Pittsburgh, PA, USA. November 2024.
2. *Head-to-head comparison of four different plasma p-tau₂₁₇ assays to detect brain amyloid pathology and cognitive decline in diverse population-based cohorts.* AAIC 2024. Philadelphia, PA, USA. August 2024.
3. *Inference for conserved microbial covariations using mixture margin random-effects copula models.* Penn Conference on Big Data in Biomedical and Population Health Sciences. Philadelphia, PA, USA. September 2022. (Best Poster Award).
4. *Statistical methods for microbiome driven integration of omics data.* ENAR 2023. Nashville, TN, USA. March 2023.
5. *Mixture margin random-effects copula models for conserved microbial covariations.* JSM 2022. Washington, DC, USA. August 2022.
6. *Inference for temporally conserved microbial interactions using mixture margin copulas.* ENAR 2022. Houston, TX, USA. March 2022.
7. *Copula models for temporally conserved microbial interactions.* JSM 2021. Seattle, WA, USA (Virtual due to COVID-19). August 2021.
8. *Mixed margin copula models for microbial interactions.* ENAR 2021. Baltimore, MD, USA (Virtual due to COVID-19). March 2021.
9. *Zero-inflated topic models for the analysis of microbiome data.* ENAR 2020. Nashville, TN, USA. (Virtual due to COVID-19). March 2020.

Teaching

UNIVERSITY OF PITTSBURGH

Fall 2025 BIOST 2143: Longitudinal and Clustered Data Analysis (3 credits)
 Fall 2024

- 2025: 32 enrolled
- 2024: 37 enrolled

Spring 2024 BOST 2025: Biostatistics Seminar (1 credit)

- Fall 2023
- 2024: 22 enrolled
 - 2023: 17 enrolled

UNIVERSITY OF PENNSYLVANIA

Teaching Assistant

Fall 2020 BSTA 630: Statistical Methods and Data Analysis I

Spring 2020 BIOM 611: Statistical Methods for the Design and Analysis of Experiments

COLUMBIA UNIVERSITY

Teaching Assistant

Fall 2017 P8130: Biostatistical Methods I

Other teaching

Spring 2018 P8180: Relational Databases & SQL Programming for Research & Data Science (Curriculum developer)

Advising

DOCTORAL DISSERTATION ADVISING

2025-Present 1. Tianshu Liu, PhD in Biostatistics, University of Pittsburgh

2024-Present 2. Crystal Zang, PhD in Biostatistics, University of Pittsburgh (Co-advised with Lu Tang)

- Best Poster Award, ASA Section on Text Analysis - JSM 2025
- Miheala Serban Award for Best Poster Presentation - ASA Pittsburgh Chapter 2024 Banquet

MASTER'S THESIS ADVISING

2025-Present 1. Ben Witkowski, MS in Biostatistics, University of Pittsburgh

2024-2025 2. Nicholas Heaton, MS in Biostatistics, University of Pittsburgh

First position: Statistician, University of Michigan

UNDERGRADUATE ADVISING

2025-Present 1. Patrick Gillespie, BS in Public Health, University of Pittsburgh

2025-Present 2. Monica Chelsea Seegars, BS in Statistics and Economics, University of Pittsburgh

2024-2025 3. Gala Krsmanovic, BS in Cyberpsychology, New Jersey Institute of Technology

OTHER ADVISING

2024-2025 1. Arsia Jamali, Gastroenterology Fellow, University of Pennsylvania

2024 2. Nina Tommarello, High school student

DOCTORAL DISSERTATION COMMITTEE SERVED

- 2025-Present 1. Penghui Huang, PhD in Biostatistics, University of Pittsburgh
2025-Present 2. Xinlei Chen, PhD in Biostatistics, University of Pittsburgh
2025-Present 3. Rick Chang, PhD in Biostatistics, University of Pittsburgh
2024-Present 4. Emma Gay, PhD in Epidemiology, University of Pittsburgh
2024-2025 5. Jie Sun, PhD in Human Genetics, University of Pittsburgh
2024-2025 6. Wenjia Wang, PhD in Biostatistics, University of Pittsburgh
2023-Present 7. Preeti Bhanap, PhD in Computational Biology, University of Pennsylvania

MASTER'S THESIS COMMITTEE SERVED

- 2025-2026 1. Grace Luikart, MS in Biostatistics, University of Pittsburgh
2025-2026 2. Caroline Layding, MS in Biostatistics, University of Pittsburgh
2025-2026 3. Vivian Zhang, MS in Biostatistics, University of Pittsburgh
2024-2025 4. Haoling Wang, MS in Biostatistics, University of Pittsburgh
2024-2025 5. Aparna Nigam, MS in Biostatistics, University of Pittsburgh
2024-2025 6. Samantha Pokorny, MS MPH in Human Genetics, University of Pittsburgh

GSR ADVISOR

- 2025-Present 1. Crystal Zang (PhD GSR), University of Pittsburgh
2024-Present 2. Tianshu Liu (PhD GSR), University of Pittsburgh
2024-Present 3. Kangyi Zhao (PhD GSR), University of Pittsburgh
2024-2025 4. Nicholas Heaton (MS hourly), University of Pittsburgh

ACADEMIC ADVISOR

- 2025-Present 1. Ben Witkowski, MS in Biostatistics, University of Pittsburgh
2025-Present 2. Vani Patel, MS in Biostatistics, University of Pittsburgh
2025-Present 3. Crystal Zang, PhD in Biostatistics, University of Pittsburgh
2024-Present 4. Tianshu Liu, PhD in Biostatistics, University of Pittsburgh
2024-2025 5. Ishta Madan, MS in Biostatistics, University of Pittsburgh
2024-2025 6. Nicholas Heaton, MS in Biostatistics, University of Pittsburgh

Professional service

EDITORIAL SERVICE

Paper referee: Annals of Applied Statistics, Annals of Epidemiology, Bioinformatics, Biometrics, BMC Medical Research Methodology, JAMA Oncology, Journal of the American Statistical Association (JASA), Methods in Ecology and Evolution, Scientific Reports, Statistics Sinica

DEPARTMENTAL, SCHOOL, AND UNIVERSITY SERVICE

- 2025-2026 Member, Biostatistics Faculty Search Committee
2025 Judge, Biostatistics Research Day
2024-Present Member, Biostatistics MS Program Committee
2024-Present Member, Biostatistics PhD Qualifying Exam Committee
2024-Present Reviewer, Psychiatry Research Review Committee

- 2024 Judge, Biostatistics Research Day
2024 Organizer, Biostatistics Research Day
2023-Present Member, Outreach and Community Engagement Committee

MEMBERSHIPS

- 2021-Present Institute of Mathematical Statistics
2019-Present American Statistical Association
2019-Present Eastern North American Region International Biometric Society (ENAR IBS)

COMMITTEE APPOINTMENTS

- 2024-Present Secretary, ASA Section on Statistics in Genomics and Genetics
2023-2024 Local organizing committee, STATGEN 2024 Conference, ASA Section on Statistics in Genomics and Genetics

CONFERENCE SERVICE

- 2025 Student paper competition reviewer, ENAR 2026
2025 Invited session organizer, ENAR 2025
2024 Student paper competition reviewer, ENAR 2025
2024 Session moderator, Rust Belt Microbiome 2024
2024 Invited session organizer and chair, STATGEN 2024 ASA SSGG

OTHER SERVICE

- 2024 Mentor, NJIT Women with STEAM Mentoring