

ALICIA JEANNETTE LOZANO

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EDUCATION

- 2016 Drexel University, David and Dana Dornsife School of Public Health
Philadelphia, Pennsylvania
Master of Science in Biostatistics
- 2013 Bryn Mawr College
Bryn Mawr, Pennsylvania
Baccalaureate of Arts Dual Degree in Mathematics and Spanish

PROFESSIONAL/RESEARCH EXPERIENCE

- 2024 to present Senior Research Associate
2020 to present Assistant Director, Center for Biostatistics and Health Data Science
2019 to 2024 Research Associate
Department of Statistics, Virginia Tech
Roanoke, Virginia
- 2016 to 2019 Statistical Analyst
2015 to 2016 Statistical Intern
BECCA (Biostatistics * Evaluation * Collaboration * Consultation *
Analysis) Lab
School of Nursing, University of Pennsylvania
Philadelphia, Pennsylvania
- 2012 Research Intern
Pacific Undergraduate Research Experience in Mathematics
University of Hawai'i at Hilo
Hilo, Hawaii

COMPUTER BACKGROUND

- Languages SAS, R
Software Github, SPSS, Stata, Mplus, AMOS, PASS, MS Office

HONORS AND AWARDS

- 2014 to 2016 Dean's Scholarship
Drexel University, David and Dana Dornsife School of Public Health
- 2013 Massachusetts Institute of Technology Lincoln Labs Research Award in
Mathematics
Department of Mathematics, Bryn Mawr College

RESEARCH

Master's Thesis:

Effects of Sleep Duration and Chronotype on the Relationship between Body Mass Index and Diabetes, Advisors: Drs. Marcia Polansky and Alexandra L. Hanlon, June 2016.

Current Funding:

Biostatistician (PI: Brem), National Institute of Health/NIAAA R21AA031548, Daily Impact of Sexual Minority Stress on Alcohol-Related Intimate Partner Violence among Bisexual+ Young Adults: A Couples' Daily Diary Study. September 2024 to August 2026. (Code: R21)

Biostatistician (PI: Hanlon), National Institute of Health/NINDS UE5NS138231-01, Ensuring Reproducible Research through Rigorous Study Design, Statistical Analysis Planning, and Data Presentation within a Team Science Framework. August 2024 to July 2027. (Code: UE5)

Biostatistician (PI: Brem), National Institute of Health/NIAAA R21AA030858, Integrating Remote Breath Alcohol Monitoring into Ecological Momentary Assessment of Alcohol-Related Intimate Partner Violence among Young Adult Drinkers. September 2023 to August 2025. (Code: R21)

Biostatistics Mentor (PI: Hanlon), National Institute of Health/NIDA/NIAAA R25DA058482, CUBE: A Collaborative Undergraduate Biostatistics Experience to Diversify and Bring Awareness to the Field of Collaborative Biostatistics. May 2023 to March 2028. (Code: R25)

Biostatistician (PI: Holohan), Evaluating the Impact of Supplementing Residential Substance Use Treatment with Written Exposure Therapy for Veterans with Co-Occurring PTSD and Substance Use Disorders. May 2023 to September 2025. (Code: IPA)

Biostatistician (PI: Oursler), Geriatric Research Data Analysis and Management, Salem Veteran Affairs Medical Center. August 2021 to September 2025. (Code: IPA)

Biostatistician (PI: Chiu) National Institutes of Health/NIMH R01MH127773-01, Evaluating Overlap and Distinctiveness in Neurocomputational Loss and Reward Elements of the RDoC Matrix. July 2021 to June 2026. (Code: R01)

Biostatistician (MPI: Casas, Chiu) National Institutes of Health/NIDA R01DA051573- 01A1, Social Influences on Choices in Adolescent Substance Use. April 2021 to January 2026. (Code: R01)

Completed Funded Grants:

Biostatistician (PI: Fogel), National Institutes of Health/NHLBI R01HL149139-02A1, Acute Imposition of Fontan Physiology in the Single Ventricle Patient: Effects on Fibrosis, Function, and Drug Intervention. July 2020 to June 2024. (Code: R01)

Biostatistician (PI: Bickel) National Institutes of Health UL1TR003015-03, The Integrated Translational Health Research Institute of Virginia (iTHRIV). February 2019 to January 2024. (Code: UL1)

Co-Investigator (PI: Gooneratne), National Institutes of Health/NINR R01AG054435-04, Changing the Trajectory of Mild Cognitive Impairment with CPAP Treatment of Obstructive Sleep Apnea. June 2017 to May 2023. (Code: R01)

Co-Investigator (PI: Richards), National Institutes of Health/NINR R01AG051588-06, Nighttime Agitation and Restless Legs Syndrome in People with Alzheimer's Disease. May 2018 to March 2023. (Code: R01)

PUBLICATIONS

Invited Articles:

Hanlon, A., Kolb R., **Lozano A.** (2023). JEDI Corner: Biostatistics Program Gives Students Real-World Experience. *Amstat News*, Issue 550. Retrieved from <https://magazine.amstat.org>

Peer Reviewed Journal Articles:

Richards, K.C., Fry, L.M., **Lozano, A.J.**, Ji, W., Morrison, J.D., Britt, K.C., Bliwise, D.L., Gooneratne, N.S., Hanlon, A.L. Treatment of Restless Legs Syndrome Improves Agitation and Sleep in Persons with Dementia: A Randomized Trial. *Journal of the American Medical Directors Association*, (in press).

Oursler, K. K., Briggs, B. C., **Lozano, A. J.**, Ryan, A. S., Marconi, V. C. Association of 2-Minute Step Test Performance with Cardiorespiratory Fitness in Older Adults with HIV. *Archives of Rehabilitation Research and Clinical Translation*, (in press).

Lozano, A. J., Ahrens, M. L., Lyons, G. R., Ma, J. Z., Ratcliffe, S. J., Hanlon, A. L. (2024). CUBE: A Collaborative Undergraduate Biostatistics Experience to Bring Diversity and Awareness to the Field of Collaborative Biostatistics. *Journal of STEM Education: Innovations and Research*. 25(3). 2024 Nov 7.

<https://jstem.org/jstem/index.php/JSTEM/article/view/2678/2395>

Chakraborty, M. A., **Lozano, A.**, Stern, C., Kim, M., Braunstein, L. Z., LaPlant, Q., McCormick, B., Xu, A. J., Hanlon, A., Powell, S. N., Khan, A. J., Choi, I. J. (2024). Reconstructive Outcomes and Complications after Mastectomy and Proton Therapy for Breast Cancer. *International Journal of Radiation Oncology*Biolog*Physics*. 120(2):e302-e302. Epub 2024 Oct 1.

<http://doi.org/10.1016/j.ijrobp.2024.07.670>

Choi, J.I., Hardy-Abeloos, C., **Lozano, A.**, Hanlon, A., Vargas, C., Maduro, J.H., Bradley, J., Offersen, B., Haffty, B., Pankuch, M., Amos, R., Kim, N., MacDonald, S.M., Kirova, Y., Mutter, R.W. (2024). PTCOG international survey of practice patterns and trends in utilization of proton therapy for breast cancer. *International Journal of Radiation Oncology*Biolog*Physics*. 120(2):e742-e743. Epub 2024 Oct 1.

<http://doi.org/10.1016/j.ijrobp.2024.07.1632>

Minjauw, F., Rasheduzzaman, M., Huang, J., **Lozano, A.**, Baumgartner, P., Dorward, P., ... Cohen, A. (2024). Climate information access and use in East and Southern Africa: identifying linkages between smallholder household characteristics and climate change adaptation. *Climate and Development*, 16(8), 685–696. <https://doi.org/10.1080/17565529.2024.2307403>

Bankole A. O., Ji W., Barbour T. B., **Lozano A. J.**, Hanlon A. L. (2024). Behavioral and Environmental Sensing and Intervention for Dementia Caregiver Empowerment (BESI): A Pilot Study. *J Am Med Dir Assoc*. 2024 Aug;25(8):105055. Epub 2024 Jun 4. PMID: 38843870.

<https://doi.org/10.1016/j.jamda.2024.105055>.

Sanchez, A. D., Reynolds, J. C., Marinik, E. L., Kolb, R. D., **Lozano, A. J.**, Davy, B. M., Hunter, G. R., Larson-Meyer, D. E. (2024). A Randomized Trial of Healthy Weight Gain in Athletic Individuals. *Med Sci Sports Exerc*. 2024 Aug 1;56(8):1454-1466. Epub 2024 Mar 23. PMID: 38537251.

<https://doi.org/10.1249/MSS.0000000000003427>.

Pellegrin, K. L., Hales, S., O'Neil, P., Wongwiwatthanakit, S., Jongrungruangchok, S., Songsak, T., **Lozano, A. J.**, Miller, K., Mnatzaganian, C. L., Fricovsky, E., Nigg, C. R., Tagorda-Kama, M., & Hanlon, A. L. (2024). Community Culture Survey - Revised: Measuring neighborhood culture and exploring geographic, socioeconomic, and cultural determinants of health in samples across the United States and in Thailand. *Public health in practice (Oxford, England)*, 7, 100512. <https://doi.org/10.1016/j.puhip.2024.100512>

Ogunmayowa, O., **Lozano, A.**, Hanlon, A., Paige, F., Cook, N., Baker, C. (2024). Social vulnerability and traumatic brain injury hospitalizations from sports and recreation among pediatric patients in the United States. *Ann Epidemiol*. 2024 May;93:19-26. Epub 2024 Mar 18. PMID: 38508406.

<https://doi.org/10.1016/j.annepidem.2024.03.002>.

Oursler, K. K., Briggs, B. C., **Lozano, A. J.**, Harris, N. M., Parashar, A., Ryan, A. S., Marconi, V. C.; FIT VET Project Team. (2024). Association of chronotropic incompetence with reduced cardiorespiratory fitness in older adults with HIV. *AIDS*. 2024 May 1;38(6):825-833. Epub 2024 Jan 11. PMID: 38578959; PMCID: PMC11003719.

<https://doi.org/10.1097/QAD.0000000000003840>.

Niazi, M., Miller, R., Kolb, R., Ji, W., **Lozano, A.**, Ahrens, M., Hanlon, A., Pickles, M., Song, A., Bar-Ad, V., Hockstein, N., Park, S.J., Raben, A., Shukla, G. (2024). Association Between Time From Surgery to Radiation Therapy and Multimodality Treatment Outcomes in HPV+ Head and Neck Cancer: A Multi-Institutional Cohort Experience. *Adv Radiat Oncol*. 2024 Apr 14;9(8):101515. PMID: 38993193; PMCID: PMC11233867.

<https://doi.org/10.1016/j.adro.2024.101515>.

Mir, A., Kesar, V., Kim, S. H., Buhle, A., Roberts, A., Singh, N., Ji, W., **Lozano, A.**, Hanlon, A., & Grider, D. (2024). Behind the Screen: Underreported Contribution of the Expert Radiologist in Inflammatory Bowel Disease Conferences and Patient Care. *Clinical Imaging*, 107, 110079.

<https://doi.org/10.1016/j.clinimag.2024.110079>

Abeoos, C. H., Gorovets, D., Lewis, A., Ji, W., **Lozano, A.**, Tung, C. C., Yu, F., Hanlon, A., Lin, H., Kha, A., Yamada, Y., Kabarriti, R., Lazarev, S., Hasan, S., Chhabra, A. M., Simone, C. B., Choi, I. J. (2023). Prospective Evaluation of Patient-Reported Outcomes of Invisible Ink Tattoos for the Delivery of External Beam Radiation Therapy: The PREFER Trial. *International Journal of Radiation Oncology, Biology, Physics*, 117(2), e234.

<https://doi.org/10.1016/j.ijrobp.2023.06.1152>

Schick, J., Lanciano, R. M., Feng, J., Whitlark, A., Pancholy, P., Ji, W., Hanlon, A., **Lozano, A.**, Lamond, J. (2023). High Risk Prognostic Factors Predictive of Outcome Following Stereotactic Body Radiation Therapy (SBRT) for Early-Stage Lung Cancer. *International Journal of Radiation Oncology, Biology, Physics*, 117(2), e55-e56. <https://doi.org/10.1016/j.ijrobp.2023.06.769>

Choi, J. I., Simone, C. B., **Lozano, A.**, Frank, S. J. (2023). Advances and Challenges in Conducting Clinical Trials With Proton Beam Therapy. *Seminars in Radiation Oncology*, 33(4), 407-415. <https://doi.org/10.1016/j.semradonc.2023.06.006>

Adams, W. P., Raisch, T. B., Zhao, Y., Davalos, R., Barrett, S., King, D. R., Bain, C. B., Colucci-Chang, K., Blair, G. A., Hanlon, A. L., **Lozano, A.**, Veeraraghaven, R., Wan, X., Deschenes, I., Smyth, J. W., Hoeker, G. S., Gourdie, R. G., Poelzing, S. (2023). Extracellular Perinexal Separation Is a Principal Determinant of Cardiac Conduction. *Circulation Research*, 133(8), 658-673. <https://doi.org/10.1161/CIRCRESAHA.123.322567>

Kim, S. H., Buhle, A., Roberts, A., Singh, N., Mir, A., Kesar, V., **Lozano, A.**, Ji, W., Hanlon, A., Grider, D. (2023). Multidisciplinary Inflammatory Bowel Disease Conference: The Impact of the Expert Pathologist on Patient Care. *Inflammatory Bowel Diseases*, izad192.

<https://doi.org/10.1093/ibd/izad192>

Eckstein, J., Choi, J. I., **Lozano, A.**, Ohri, N., Press, R., Hasan, S., Kabarriti, R., Chang, J., Urbanic, J., Durci, M., Mohammed, N., Stevens, C., Tsai, H., Apisarnthanarax, S., Regine, W., Vargas, C., Nichols, R., Herman, J., Simone, C. B., Chhabra, A. (2023). Proton Therapy for Unresectable and Medically Inoperable Locally Advanced Pancreatic Cancer: Results from a Multi-Institutional Prospective Registry. *Advances in Radiation Oncology*, Volume 8, Issue 5, 101250. <https://doi.org/10.1016/j.adro.2023.101250>

Nappier, M., Alvarez, E. E., Bartl-Wilson, L., Boynton, E. P., Hanlon, A. L., **Lozano, A. J.**, Ng, Z., Ogunmayowa, O., Shoop, T., Welborn, N. (2023). Differences in Sleep Quality and Sleepiness among Veterinary Medical Students at Multiple Institutions before and after the Pandemic Induced Transition to Online Learning. *Journal of Veterinary Medical Education*, e20230054. <https://doi.org/10.3138/jvme-2023-0054>

Truong, A., Kablinger, A., Hartman, C., Hartman, D., West, J., Hanlon, A., **Lozano, A.**, McNamara, R., Seidel, R., Trestman, R. (2023). Noninferiority Clinical Trial of Adapted START NOW Psychotherapy for Outpatient Opioid Treatment. *Research Square*.

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Ratnasekera, A. M., Kim, D., Seng, S. S., Jacovides, C., Kaufman, E. J., Sadek, H. M., Perea, L., Monaco, C., Shnaydman, I., Lee, A. J., Sharp, V., Miciura, A., Trevizio, E., Rosenthal, M., Lottenberg, L., Zhao, W., Hanlon, A., Ji, W., **Lozano, A.** (2023). Early VTE prophylaxis in severe traumatic brain injury: A propensity score weighted EAST multicenter study. *The Journal of Trauma and Acute Care Surgery*, 95(1), 94-104. <https://doi.org/10.1097/TA.0000000000003985>

Paidipati, C. P., **Lozano, A. J.**, West, J., Huang, L., Hanlon, A. L., Ulrich, C. M. (2023). Understanding the mediated relationship between moral distress, depression, and suicide risk in undergraduate nursing students. *Nursing Outlook*, 71(3). <https://doi.org/10.1016/j.outlook.2023.101966>

Richards, K. C., **Lozano, A. J.**, Morris, J., Moelter, S. T., Ji, W., Vallabhaneni, V., Wang, Y., Chi, L., Davis, E. M., Cheng, C., Aguilar, V., Khan, S., Sankhavaram, M., Hanlon, A. L., Wolk, D. A., Gooneratne, N. (2023). Memories 2 Study Research Team. Predictors of Adherence to Continuous Positive Airway Pressure in Older Adults with Apnea and Amnesic Mild Cognitive Impairment. *J Gerontol A Biol Sci Med Sci*. 2023 Apr 6:glad099. Epub ahead of print. PMID: 37021413. <https://doi.org/10.1093/gerona/glad099>

Apel, P.J., Cripe, B. A., Schmitt, M. W., Orfield, N. J., **Lozano, A. J.**, Hanlon, A. L., Capito, A. E. (2023). Predictors of Mortality and Revision Following Digital Amputation for Infection and Necrosis. *Journal of Hand Surgery*, 48(5), 460-467. <https://doi.org/10.1016/j.jhsa.2023.01.014>

Bendetson, J., Swann, M. C., **Lozano, A.**, West, J., Hanlon, A. L., Crandell, I., Jatta, M., Schlepner, C. J., Baffoe-Bonnie, A. (2023). Deepening Our Understanding of COVID-19 Vaccine Decision-Making amongst Healthcare Workers in Southwest Virginia, USA Using Exploratory and Confirmatory Factor Analysis. *Vaccines*, 11(3), 556. <https://doi.org/10.3390/vaccines11030556>

Zuckerman, I., Force, J., Hanlon, A. L., **Lozano, A. J.**, Ji, W., Anderson, J. G. (2023). Periodontal Pocket Therapy Using a Class IV Dental Diode Laser in Dogs: A Retrospective Analysis. *Journal of Veterinary Dentistry*, 8987564231164493. <https://doi.org/10.1177/08987564231164493>

Choi, J. I., McCormick, B., Park, P., Millar, M., Walker, K., Tung, C. C., Huang, S., Florio, P., Chen, C., **Lozano, A.**, Hanlon, A. L., Fox, J., Xu, A. J., Zinovoy, M., Mueller, B., Bakst, R., LaPlant, Q., Braunstein, L. Z., Khan, A. J., Powell, S. N., Cahlon, O. (2023). Comparative Evaluation of Proton Therapy and Volumetric Modulated Arc Therapy for Brachial Plexus Sparing in the Comprehensive Reirradiation of High-Risk Recurrent Breast Cancer. *Advances in Radiation Oncology*, 101355. <https://doi.org/10.1016/j.adro.2023.101355>

Hanlon, A. L., **Lozano, A. J.**, Prakash, S., Bezar, E. B., Ambrosius, W. T., Brock, G., Desai, M., Pollock, B.H., Sammel, M. D., Spratt, H., Welty, L. J., Pomann, G., (2022). A comprehensive survey of collaborative biostatistics units in academic health centers. *Stat*. 11(1), e521. <https://onlinelibrary.wiley.com/doi/full/10.1002/sta4.521>

Choi, I. J., Monteleone, A. B., McCormick, B., Sienko, D., **Lozano, A.**, Xu, A. J., Gillespie, E. F., Braunstein, L. Z., LaPlant, Q., Cuaron, J. J., Khan, A. J., Powell, S. N., Cahlon, O. (2022). Reirradiation with Photon Radiotherapy for Recurrent or New Primary Breast Cancer after Prior Breast Irradiation. *International Journal of Radiation Oncology, Biology, Physics*, Volume 114, Issue 3, e2. <https://doi.org/10.1016/j.ijrobp.2022.07.676>

Han, J. E., **Lozano, A.**, Hasan, S., Choi, J. I., Chhabra, A. M., Tsai, H., . . . Press, R. H. (2022). Proton Therapy Outcomes for Head and Neck Cutaneous Melanoma: Proton Collaborative Group Analysis. *International Journal of Particle Therapy*. <https://doi.org/10.14338/ijpt-22-00003.1>

Lisanti, A. J., Golfenshtein, N., Marino, B. S., Huang, L., Hanlon, A. L., **Lozano, A. J.**, Curley, M. A. Q., Medoff-Cooper, B. (2022). Quality of Life of Mothers of Infants Subjected to Neonatal Cardiac Surgery: The Importance of Psychosocial Factors. *World Journal for Pediatric and Congenital Heart Surgery*, 13(3), 324–331. <https://doi.org/10.1177/21501351221088832>

Hanlon, A. L., Pauly, M. V., Huang, L., **Lozano, A. J.**, Hirschman, K. B., McCauley, K., Press, M., Naylor, M. D. (2022). Examining the Mediating Role of Medical Complexity on the Relationship Between Social Vulnerability and Health Care Resource Use. *Journal of Healthcare Management*, 67(3), 173–191. <https://doi.org/10.1097/jhm-d-21-00072>

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Taney, K., Smith, M. M., Cummings, N. P., **Lozano, A. J.** (2021). Risk Factors for Failure of Hard Palate Mucoperiosteal Flap Repair of Acquired Oronasal Communication in Dogs: A Pilot Study. *Frontiers in Veterinary Science*. <https://doi.org/10.3389/fvets.2021.762842>

Golfenshtein, N., Hanlon, A. L., **Lozano, A. J.**, Srulovici, E., Lisanti, A. J., Cui, N., Medoff-Cooper, B. (2021). Parental Post-traumatic Stress and Healthcare Use in Infants with Complex Cardiac Defects. *The Journal of Pediatrics*, 238, 241–248. <https://doi.org/10.1016/j.jpeds.2021.06.073>

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Hrubec, T. C., Seguin, R. P., Xu, L., Cortopassi, G. A., Datta, S., Hanlon, A. L., **Lozano, A. J.**, McDonald, V. A., Healy, C. A., Anderson, T. C., Musse, N. A., Williams, R. T. (2021). Altered toxicological endpoints in humans from common quaternary ammonium compound disinfectant exposure. *Toxicology Reports*, 8, 646–656. <https://doi.org/10.1016/j.toxrep.2021.03.006>

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Ricco, A., Barbera, G., Lanciano, R., Feng, J., Hanlon, A., **Lozano, A.**, Good, M., Arrigo, S., Lamond, J., Yang, J. (2020). Favorable Biochemical Freedom from Recurrence with Stereotactic Body Radiation Therapy for Intermediate and High-Risk Prostate Cancer: A Single Institutional Experience with Long-Term Follow-Up. *Frontiers in Oncology*, 10, 1505. <https://doi.org/10.3389/fonc.2020.01505>

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Healy, S., Patterson, F., Williams, E., **Lozano, A. J.**, Hanlon, A. L., Obruchnikova, I. (2020). Rethinking daily movement behaviors of children with autism spectrum disorder: Meeting the 24-hour movement guidelines. *European Journal of Adapted Physical Activity*, 13(2), 1–11. <https://doi.org/10.5507/euj.2020.006>

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You, A. S., Fukunaga, B. T., Hanlon, A. L., **Lozano, A. J.**, Goo, R. A. (2018). The Daniel K. Inouye College of Pharmacy Scripts: The Effects of Vancomycin Use and De-escalation in Patients Hospitalized with Pneumonia. *Hawaii Journal of Medicine and Public Health*, 77(10), 261–267. https://hawaiijournalhealth.org/past_issues/hjmph7710_0261.pdf

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Patterson, F., Grandner, M. A., **Lozano, A.**, Satti, A., Ma, G. (2018). Transitioning from adequate to inadequate sleep duration associated with higher smoker rate and greater nicotine dependence in a population sample. *Addictive Behaviors*. <https://doi.org/10.1016/j.addbeh.2017.09.011>

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Robson S. M., **Lozano A. J.**, Papas M., Patterson F. (2017). Food Insecurity and Cardiometabolic Risk Factors in Adolescents. *Prev Chronic Dis* 2017;14:170222. <https://doi.org/10.5888/pcd14.170222>

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PRESENTATIONS/INVITED TALKS

“PROPELLing the Careers of People from Historically Marginalized Groups in Collaborative Statistics.” Panel Session for the 2025 Joint Statistical Meeting, Nashville, TN, August 2025.

“Addressing Rigor and Reproducibility in Translational Science through the Community for Rigor (C4R) Initiative.” Panel Session Moderator for Translational Science 2025, Washington, DC, April 2025.

“Advancing Mid-Level Collaborative Biostatisticians in Historically Marginalized Groups: Challenges, Recommendations, and Strategies.” Panel Session for the 2025 ENAR Spring Meeting, New Orleans, LA, March 2025.

“Biostatistical Concepts and Examples.” Oral Presentation for the Carilion Clinic Research Series, October 2024.

“Mentoring Webinar.” Panel Session for the Quantitative Staff Network, September 2024.

“CUBE: A Collaborative Undergraduate Biostatistics Experience to Bring Diversity and Awareness to the Field of Collaborative Biostatistics.” Poster Presentation for Translational Science 2024, Las Vegas, NV, April 2024.

“Training, Retaining, and Promoting Staff Collaborative Biostatisticians in the Academic Panel Session for Health Setting.” Panel Session Moderator for Translational Science 2024, Las Vegas, NV, April 2024.

“Programs to Bring Awareness to, and Diversify, the Field of Biostatistics and Health Data Science.” Panel Session for Translational Science 2024, Las Vegas, NV, April 2024.

“Beyond Spreadsheets: Unleashing the Power of REDCap for Research Data Collection.” Oral Presentation for the Salem Veteran Affairs Medical Center Research in Review Monthly Investigator Meeting, February 2024.

“CUBE: A Collaborative Undergraduate Biostatistics Experience to Bring Diversity and Awareness to the Field of Collaborative Biostatistics”, Oral Presentation for the American Statistical Association’s 2023 Conference on Statistical Practice, February 2023.

“Good Research Grows from Columns and Rows: Planting the Seeds of Success through Database Management”, Oral Presentation for the iTHRIV BERD Seminar Series, Virginia Tech, March 2022.

WORKSHOPS/GUEST LECTURES

“Fast-tracking the development of health equity engineering: A collaborative workshop.” Notetaker for Diagnosing Risk of Accelerated Aging Breakout Group for Translational Science 2025, Washington, DC, April 2025.

“Creating Statistical Analysis Plan (SAP) & Summary Reports.” CUBE 2024 Professional Development Session, Virginia Tech, June 2024.

“Table 1.” CUBE 2024 Professional Development Session, Virginia Tech, June 2024.

“Creating Statistical Analysis Plans and Scopes of Work”. STAT 5024 Communication in Statistical Collaboration, Virginia Tech, March 2024.

“Logistic Regression Modeling”. STAT 5024 Communication in Statistical Collaboration, Virginia Tech, February 2024.

“Creating Statistical Analysis Plan (SAP) & Summary Reports.” CUBE 2023 Professional Development Session, Virginia Tech, June 2023.

“Table 1.” CUBE 2024 Professional Development Session, Virginia Tech, June 2023.

“Creating Statistical Analysis Plans and Scopes of Work”. STAT 5024 Communication in Statistical Collaboration, Virginia Tech, March 2023.

“Logistic Regression Modeling”. STAT 5024 Communication in Statistical Collaboration, Virginia Tech, February 2023.

“Data Management in REDCap.” Virtual iTHRIV Brown Bag Session, March 2022.

“Data Reduction Techniques.” Virtual iTHRIV Brown Bag Session, March 2022.

“REDCap API in R.” Virtual iTHRIV Brown Bag Session, February 2022.

“Longitudinal Modeling.” Virtual iTHRIV Brown Bag Session, January 2022.

“Summarizing, Interpreting, and Writing Biostatistical Results.” Virtual iTHRIV Brown Bag Session, August 2021.

“Power and Sample Size Calculations.” Virtual iTHRIV Brown Bag Session, August 2021.

“Linear and Logistic Regression Modeling.” Virtual iTHRIV Brown Bag Session, June 2021.

“Introduction to R, Tables and Graphs.” Virtual iTHRIV Brown Bag Session, April 2021.

“Statistical Analysis Planning, Data Preparation and Cleaning.” Virtual iTHRIV Brown Bag Session, March 2021.

RESEARCH/EDUCATIONAL CONSULTATION

2020 to present Biostatistics Consultant, New York Proton Center, New York, NY

2017 to present Biostatistics Consultant, Daniel K. Inouye College of Pharmacy,
University of Hawai'i at Hilo, Hilo, HI

2016 to 2018 Biostatistics Consultant, Department of Behavioral Health and Nutrition,
University of Delaware, Newark, DE

MEETING/CONFERENCE ORGANIZING ROLES

2023, 2024 Co-Organizer (CBHDS), Women in Data Science (WiDS) Blacksburg
Regional Conference, Virginia Tech, Blacksburg, VA, April 2023 and
February 2024

PROFESSIONAL SERVICE

2024 to present Chair, DSMB for Virginia Tech, High Resolution Interrogation of the Insula
in Mechanisms of Chronic Pain (PI: Legon)

2022 to present Member, Association for Clinical and Translational Science Justice,
Equity, Diversity, & Inclusion Special Interest Group (JEDI SIG)

2020 to present Member, Association for Clinical and Translational Science Biostatistics,
Epidemiology, & Research Design Special Interest Group (BERD SIG)

2022 to present Chair, DSMB for University of Virginia, Therapeutic Strategies for
Microvascular Dysfunction in Type 1 Diabetes (PI: Love)

2022 to present Member, DSMB for New York Proton Center, New York City, NY

2014 to present Member, American Statistical Association

2012 to 2016 Member, American Mathematical Society

TEACHING EXPERIENCE

2020 to 2022 Introduction to Biostatistics (Independent Study), Center for Biostatistics
and Health Data Science, Virginia Tech

2013 Teaching Assistant, MATH 104 Basic Probability and Statistics, Bryn
Mawr College

MENTORSHIP/ADVISING

2024 to present	Biostatistics Mentor: Parsa Khaksar, MD Candidate, Virginia Tech, Virginia Tech Carilion School of Medicine
2024 to present	Biostatistics Mentor: Carly Black, MS, Exercise Physiologist, Salem Veteran Affairs Medical Center, Salem, VA
2024 to present	Biostatistics Mentor: Sarah Schroder, MD Candidate, Virginia Tech, Virginia Tech Carilion School of Medicine
2024 to present	Biostatistics Mentor: Neel Patel, MD Candidate, Virginia Tech, Virginia Tech Carilion School of Medicine
2024 to present	Biostatistics Mentor: Marie-Claire Evans, MD Candidate, Virginia Tech, Virginia Tech Carilion School of Medicine
2024 to present	Biostatistics Mentor: Allison Seifert, MD Candidate, Virginia Tech, Virginia Tech Carilion School of Medicine
2024 to present	Biostatistics Mentor: Charles LeNeave, MD Candidate, Virginia Tech, Virginia Tech Carilion School of Medicine
2024 to present	Biostatistics Mentor: Elizabeth Gilliam, MD Candidate, Virginia Tech, Virginia Tech Carilion School of Medicine
2024 to present	Biostatistics Mentor: Sachi Dholakia, MD Candidate, Virginia Tech, Virginia Tech Carilion School of Medicine
2024 to present	Biostatistics Mentor: Julia De Luca, MD Candidate, Virginia Tech, Virginia Tech Carilion School of Medicine
2024 to present	CBHDS Data Analyst Mentor: Sakshar Desai, MS graduate, Virginia Tech, Statistics
2024 to present	CBHDS CMDA Undergraduate Intern Mentor: Stuart Waymack, BS Candidate, Virginia Tech, Computational Modeling and Data Analytics
2023 to present	Biostatistics Mentor: Mia Edelson, MD Candidate, Virginia Tech, Virginia Tech Carilion School of Medicine
2023 to present	Biostatistics Mentor: Zachary Johnson, MD Candidate, Virginia Tech, Virginia Tech Carilion School of Medicine
2023 to present	Biostatistics Mentor: Paul Varghese, MD Candidate, Virginia Tech, Virginia Tech Carilion School of Medicine
2023 to present	Biostatistics Mentor: Bradley Weaver, MD Candidate, Virginia Tech, Virginia Tech Carilion School of Medicine
2024	CUBE 2024 Biostatistics Mentor: Maggie Brooks, St. Olaf College, Department of Religion

2024	CUBE 2024 Biostatistics Mentor: Genevieve Brunner, Virginia Tech, Department of Statistics
2024	CUBE 2024 Biostatistics Mentor: Chloe Burt, Virginia Tech, Department of Biological Sciences
2024	CUBE 2024 Biostatistics Mentor: Jackie Gregasavitch, Virginia Tech, Academy of Integrated Science
2024	CUBE 2024 Biostatistics Mentor: Genevieve Jean-Pierre, Duke University, Department of Computer Science
2024	CUBE 2024 Biostatistics Mentor: Sarah Lathrop, Washington and Lee University, Department of Mathematics
2024	CUBE 2024 Biostatistics Mentor: Julia Neres, Florida State University, College of Social Sciences and Public Policy
2024	CUBE 2024 Biostatistics Mentor: Miriam Sack, Juniata College, Department of Mathematics
2024	CUBE 2024 Biostatistics Mentor: Grayson Weavil, Wake Forest University, Department of Statistical Sciences
2024	CBHDS Graduate Intern Mentor: Mingang Kim, PhD Candidate, Virginia Tech, Statistics
2023 to 2024	Biostatistics Mentor: Sydney Dinn, MD Candidate, Virginia Tech, Virginia Tech Carilion School of Medicine
2023 to 2024	Biostatistics Mentor: Paula Lewis, MD Candidate, Virginia Tech, Virginia Tech Carilion School of Medicine
2023 to 2024	Biostatistics Mentor: Megan Harrigan, MD Candidate, Virginia Tech, Virginia Tech Carilion School of Medicine
2023 to 2024	Biostatistics Mentor: Stephen Dvorak, MD Candidate, Virginia Tech, Virginia Tech Carilion School of Medicine
2023 to 2024	Dissertation Advising: Thomas Shaw, PhD Candidate, Virginia Tech, Department of Psychology
2023 to 2024	Biostatistics Mentor: Miles Thomas, MD Candidate, Virginia Tech, Virginia Tech Carilion School of Medicine
2023 to 2024	CBHDS CMDA Undergraduate Intern Mentor: Benjamin Zeitlin, BS Candidate, Virginia Tech, Computational Modeling and Data Analytics
2023	CUBE 2023 Biostatistics Mentor: Nhu Thieu (Makara) Le, University of Massachusetts Amherst, Department of Economics
2023	CUBE 2023 Biostatistics Mentor: David Henderson, University of Dayton, Department of Biology
2023	CUBE 2023 Biostatistics Mentor: Alicia Alvarez, California State University East Bay, Department of Statistics and Biostatistics

2023 CUBE 2023 Biostatistics Mentor: Margaret Shideler, Cornell University, College of Human Ecology

2023 CUBE 2023 Biostatistics Mentor: Chloe Barnes, Purdue University, Department of Statistics

2023 CMDA Capstone Spring 2023 Project Advisor: Jacob Parker, BS Candidate, Virginia Tech, Computational Modeling and Data Analytics

2023 CMDA Capstone Spring 2023 Project Advisor: Sabrina Hart, BS Candidate, Virginia Tech, Computational Modeling and Data Analytics

2023 CMDA Capstone Spring 2023 Project Advisor: Aaron Ni, BS Candidate, Virginia Tech, Computational Modeling and Data Analytics

2023 CMDA Capstone Spring 2023 Project Advisor: Anish Monokonda, BS Candidate, Virginia Tech, Computational Modeling and Data Analytics

2022 to 2024 Biostatistics Mentor: Catherine Lavalley, MD Candidate, Virginia Tech, Virginia Tech Carilion School of Medicine

2022 to 2024 CBHDS CMDA Undergraduate Intern Mentor: Jordan Harrington, BS Candidate, Virginia Tech, Computational Modeling and Data Analytics

2022 to 2023 CBHDS Volunteer Research Assistant Mentor: Tanner Barbour, BS Candidate, Virginia Tech, Human Nutrition, Food, and Exercise

2022 to 2023 CBHDS CMDA Undergraduate Intern Mentor: Nicole Dao, BS Candidate, Virginia Tech, Computational Modeling and Data Analytics

2022 CMDA Capstone Fall 2022 Project Advisor: Laura Nury, BS Candidate, Virginia Tech, Computational Modeling and Data Analytics

2022 CMDA Capstone Fall 2022 Project Advisor: Rithvik Guntor, BS Candidate, Virginia Tech, Computational Modeling and Data Analytics

2022 CMDA Capstone Fall 2022 Project Advisor: Renny Adjei, BS Candidate, Virginia Tech, Computational Modeling and Data Analytics

2022 CBHDS Graduate Intern Mentor: Alicia Arneson, PhD Candidate, Virginia Tech, Department of Biochemistry

2022 CUBE 2022 Biostatistics Mentor: Kinara Gasper, Harvard University, School of Engineering and Applied Sciences

2022 CUBE 2022 Biostatistics Mentor: Kayla Williams, Ohio State University, Department of Mathematics

2022 CUBE 2022 Biostatistics Mentor: Jacqueline Morales, University of Virginia, Department of Sociology

2022 CUBE 2022 Biostatistics Mentor: Nhiya David, University of Virginia, Department of Biology

2022	CBHDS Volunteer Research Assistant Mentor: Eman Gaber, BS Candidate, American University, School of Business
2022	CBHDS Volunteer Research Assistant Mentor: Mir Abdullah, BS Candidate, Virginia Tech, Computational Modeling and Data Analytics
2021 to 2024	Biostatistics Mentor: Jesse Bendetson, MD Candidate, Virginia Tech, Virginia Tech Carilion School of Medicine
2021 to 2023	CBHDS Data Analyst Mentor: Ryann Kolb, Virginia Tech
2021 to 2023	Dissertation Advising: Hassan Farah, PhD Candidate, Virginia Tech, Translational Biology, Medicine, and Health
2021 to 2023	Dissertation Advising: Oluwatosin Ogunmayowa, PhD Candidate, Virginia Tech, Population Health Sciences
2021 to 2023	Dissertation Advising: Frankie Edwards, PhD Candidate, Virginia Tech, Translational Biology, Medicine, and Health
2021 to 2022	CBHDS CMDA Undergraduate Intern Mentor: Connor Law, BS Candidate, Virginia Tech, Computational Modeling and Data Analytics
2021 to 2022	CBHDS CMDA Undergraduate Intern Mentor: Fiona Tran, BS Candidate, Virginia Tech, Computational Modeling and Data Analytics
2021 to 2022	CBHDS Data Analyst Mentor: Swathi Prakash, Virginia Tech
2021	CMDA Undergraduate Intern Mentor: Mitchell Neat, BS Candidate, Virginia Tech, Computational Modeling and Data Analytics
2021	CUBE 2021 Biostatistics Mentor: K'Risa Chesterfield, Virginia State University, Department of Mathematics and Economics
2021	CMDA Capstone Spring 2021 Project Advisor: Yohannes Afework, BS Candidate, Virginia Tech, Computational Modeling and Data Analytics
2021	CMDA Capstone Spring 2021 Project Advisor: Jaffar Shaik, BS Candidate, Virginia Tech, Computational Modeling and Data Analytics
2021	CMDA Capstone Spring 2021 Project Advisor: Naod Teklie, BS Candidate, Virginia Tech, Computational Modeling and Data Analytics
2020 to 2021	CBHDS Undergraduate Intern Mentor: Abigail Stein, BS Candidate, Wesleyan University, Department of Neuroscience and Behavior
2016 to 2021	Dissertation Advising: Eileen Regan, PhD Candidate, University of Pennsylvania, School of Nursing