

**ALEXANDRA LOUISE HANLON**

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**EDUCATION**

1998 Temple University  
Philadelphia, Pennsylvania  
Doctor of Philosophy in Statistics

1991 University of California, Irvine  
Irvine, California  
Master of Science in Mathematical Statistics

1985 Rochester Institute of Technology  
Rochester, New York  
Baccalaureate of Science in Mathematics, Statistics minor

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**ACADEMIC POSITIONS**

2024 to present Associate Professor  
2019 to 2024 Professor of Practice  
2019 to present Director, Center for Biostatistics and Health Data Science  
2019 to 2025 Co-Director, iTHRIV BERD Research Methods Core  
Department of Statistics, Virginia Tech  
Roanoke, Virginia

2014 to 2019 Research Professor  
2008 to 2014 Associate Research Professor  
School of Nursing, University of Pennsylvania  
Philadelphia, Pennsylvania

2007 to 2008 Associate Research Professor  
2005 to 2007 Assistant Research Professor  
Department of Public Health  
College of Health Professions, Temple University  
Philadelphia, Pennsylvania

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**OTHER POSITIONS**

2004 to 2005 Director, Biostatistics  
Johnson and Johnson  
Chesterbrook, Pennsylvania

2002 to 2004 Director, Biostatistics and Data Management  
OraPharma of Johnson and Johnson  
Warminster, Pennsylvania

1994 to 2004 Senior Research Biostatistician  
(part-time after 2002) Fox Chase Cancer Center  
Philadelphia, Pennsylvania

1991 to 1994                      Biostatistician  
The American College of Radiology  
Philadelphia, Pennsylvania

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## COMPUTER BACKGROUND

Languages                      SAS, R, MATLAB, S+, GLIM, APL, BASIC, FORTRAN, Pascal  
Software                      GitHub, SPSS, Stata, Mplus, JMP, PASS, Minitab, MS Office Suite

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## HONORS AND AWARDS

2025                      Mentoring JEDI Award  
Justice, Equity, Diversity, & Inclusion (JEDI) SIG Meeting  
Translational Science 2025, Washington, DC, April 2025

2025, 2024                      Nominated for Founders Award  
American Statistical Association

2023                      Statistical Consulting Section's Best Topic Contributed Session  
*Strategies for Successfully Scoping and Tracking Collaborative  
Statistical Work*  
American Statistical Association's Joint Statistical Meetings

2022                      Academy of Data Science Discovery Fund Award  
*BESI: Behavioral and Environmental Sensing and Intervention for Dementia  
Caregiver Empowerment*  
Virginia Tech

2021                      Judges' Choice Award  
Week of the Nurse, 11th Annual Art and Science of Nursing Showcase  
Presentation: *Race, Vitamin D Status, and COVID-19 Positivity Using  
Propensity Score Methods*  
Carilion Clinic

2019                      Fellowship Award  
American Statistical Association

2014                      Statistical Consulting Section's Best Topic Contributed Session  
*Collaborative Statisticians Advancing their Academic Careers in an  
Academic Setting*  
American Statistical Association's Joint Statistical Meetings

2012                      Research Award  
Department of Family and Community Health  
School of Nursing  
University of Pennsylvania

1996                      Summer Research Fellowship Award  
School of Business and Management  
Temple University

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## RESEARCH

### Doctoral Dissertation:

*Hierarchical Nonlinear Mixed Effects Modeling: Inference and Classification using a Fully Parametric Model*, Advisor: Dr. Dirk Moore, August 1998.

### Current Funding:

Co-Investigator (PI: Gohlke), National Institutes of Health/NINR R61NR021961: Supporting flood recovery in rural, mountainous areas through health systems knowledge exchange and fine-scale healthcare utilization data analysis. September 2025 to February 2030. (Code: R61/R33)

Principal Investigator (PI: **Hanlon**), National Institute of Neurological Disorders and Stroke UE5NS138231: Ensuring Reproducible Research through Rigorous Study Design, Statistical Analysis Planning, and Data Presentation within a Team Science Framework. (METER) August 2024 to July 2027. (Code: U)

Co-Investigator (PI: Brem), National Institutes 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 2025. (Code: R21)

Co-Investigator (PI: Brem), National Institutes of Health/NIAAA R21AA030858: Integrating Remote Breath Alcohol Monitoring into Ecological Momentary Assessment of Alcohol-Related Intimate Partner Violence among Young Adult Drinkers. April 2024 to March 2026. (Code: R21)

Co-Investigator (PI: Dunkenberger), Roanoke & Alleghany Health Districts, Virginia Department of Health MOU VDH-23-012-0314: Roanoke & Alleghany Health Districts Community Engagement. July 2023 to November 2026. (Code: O)

Principal Investigator (PI: **Hanlon**), National Institutes 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)

Co-Investigator (PI: DiFeliceantonio), National Institutes of Health/NIDK R01DK132389: Ultra-Processed Food Reward: Neural and Metabolic Factors. February 2023 to January 2028. (Code: R01)

Co-Investigator (PI: Chiu), National Institutes of Health/NIAAA R01AA029222: Making Connections among Social Ties, Neural Sensitivity to Social Signals, and Outcomes. September 2021 to May 2026. (Code: R01)

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

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

### Completed Funded Grants:

Co-Investigator (MPI: Johnston, Brown), University of Virginia (National Institutes of Health/NCATS UL1TR003015 Flow-thru): The Integrated Translational Health Research Institute of Virginia (iTHRIV). February 2019 to January 2025. (Code: UL1)

Co-Investigator (MPI: Pack, Horn), East Tennessee State University (NIH-NIDA R24DA051973 Flow-thru): Studies to Advance Recovery Supports (STARS) in Central Appalachia. July 2020 to April 2025. (Code: R24)

Co-Investigator (PI: Hosig), National Association of Chronic Disease Directors (CDC NU38OT000286 Flow-thru): Rigorous Evaluation of New Beginnings as a Diabetes Management Social Support Intervention in Context. September 2023 to August 2025. (Code: O)

Co-Investigator (PI: Fogel), Children's Hospital of Philadelphia (National Institutes of Health/NHLBI R01HL149139 flow-through): Acute Imposition of Fontan Physiology in the Single Ventricle Patient: Effects on Fibrosis, Function, and Drug Intervention. July 2020 to June 2024. (Code: R01)

Co-Investigator (PI: Abbott), Miami University (National Institutes of Health/NIA U54AG063546 flow-through): Testing the Feasibility of the Individualized Positive Psychosocial Intervention. March 2023 to June 2024. (Code: O)

Co-Investigator (PI: Volpe), American Pistachio Growers: Effects of Pistachio Consumption on Inflammatory Markers, Recovery, and Lean Body Mass in Recreationally Active Adults. November 2022 to November 2024. (Code: O)

Co-Investigator (PI: Naylor), New Courtland Center for Transitions and Health, University of Pennsylvania: Population Health Initiative. January 2019 to June 2023. (Code: O)

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

Co-Investigator (PI: Polsky), University of Pennsylvania (National Institute of Health/NIA P30AG059302 flow-through): Center for Improving Care Delivery for the Aging (CICADA). September 2018 to June 2023. (Code: P30)

Co-Investigator (PI: Naylor), University of Pennsylvania (Missouri Foundation for Health 20-0006-OF-20 flow-through): Multisite Replication of the Transitional Care Model. October 2020 to March 2023. (Code: O)

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

Co-Investigator (PI: Horn), Qlarion, Inc.: Collaboration with VA's FAACT Project to Inform Community-Engaged Research and Translation. November 2019 to October 2022. (Code: O)

Co-Investigator (PI: Dunkenberger), The Office of National Drug Control Policy, Crisis Response and Harm Reduction: Combating Opioid Overdose through Community-level Intervention. December 2019 to November 2020. (Code: O)

Co-Investigator (PI: Fogel), Children's Hospital of Philadelphia (National Institutes of Health/NHLBI R01HL090615 flow-through): Cerebral Anatomy, Hemodynamics and Metabolism in Single Ventricles: Relationship to Neurodevelopment. October 2015 to June 2020. (Code: R01)

Co-Investigator (PI: Hodgson), National Institutes of Health/NINR R01NR015226: The Role of Palliative Care Interventions to Reduce Circadian Rhythm Disorders in Persons with Dementia. September 2016 to January 2019. (Code: R01)

Co-Investigator (PI: Ulrich), National Institutes of Health/NINR R01CA196131: Retention in Cancer Clinical Trials: Modeling Patient-Participants' Risk-Benefit Assessments. December 2014 to January 2019. (Code: R01)

Principal Investigator (**PI: Hanlon**), University of Pennsylvania Research Funds: Quantifying the Effects of Sleep on Cardiovascular Health Risk Factors: A Population Analysis using UK Biobank Data. July 2016 to July 2018. (Code: O)

Co-Investigator (PI: Villarruel), National Institutes of Health/NINR R01NR013505: Testing a Latino Web-based Parent-Adolescent Sexual Communication Intervention. September 2012 to June 2017. (Code: R01)

Biostatistician (PI: Chirinos), National Institutes of Health/NHLBI R56HL124073: Targeting Central Pulsatile Hemodynamics in Chronic Kidney Disease. September 2015 to August 2016. (Code: R56)

Biostatistician (PI: Heil), National Institutes of Health/NINR R44NR013609: Technology Application to Enhance Discharge Referral Decision Support. September 2014 to August 2016. (Code: R44)

Biostatistician (PI: Fogel), National Institutes of Health/NHLBI R01HL090615: Cerebral Anatomy, Hemodynamics and Metabolism in Single Ventricles: Relationship to Neurodevelopment. October 2015 to June 2016. (Code: R01)

Biostatistician (PI: Kim), National Institutes of Health/NINR R00NR013177: An Objective Snoring Index and Its Association with Carotid Atherosclerosis. September 2013 to June 2016. (Code: K99/R00)

Statistician (PI: Buttenheim), National Institutes of Health/NICHD R03HD080732: Vaccination Status of Children Exempted from School-Entry Immunization Mandates. July 2014 to April 2016. (Code: R03)

Co-Investigator (PI: Medoff-Cooper), National Institutes of Health/NINR R01NR002093: Feeding Behaviors and Energy Balance in Infants with CHD. July 2011 to March 2016. (Code: R01)

Biostatistician (PI: Brawner), CDC/National Institutes of Health NCHHSTP U01PS003304: PS11-003 Minority AIDS Research Initiative. January 2012 to December 2015. (Code: U01)

Co-Investigator (PI: Thompson), National Institutes of Health/NCI P30CA016520: Abramson Cancer Center Support Grant Biostatistics Core. December 2010 to November 2015. (Code: P30)

Co-Investigator (PI: Rhodes), National Institutes of Health/NIAAA R01AA018705: A RCT of Brief Intervention for Problem Drinking and Partner Violence. September 2010 to May 2015. (Code: R01)

Statistician (PI: Liu), National Institutes of Health/NIEHS R01ES018858: Lead Exposure, Externalizing Behavior, and Neurobiological Mediating Factors. September 2011 to April 2015. (Code: R01)

Principal Investigator (**PI: Hanlon**), Robert Wood Johnson Foundation Health and Society Scholars Program: Effects of Chronotype on Sleep Duration and Body Composition Variables. October 2013 to August 2014. (Code: O)

Biostatistician (PI: Souders), Department of the Army: Tailored Behavioral Intervention for Insomnia in Children with Autism Spectrum Disorders. July 2013 to June 2014. (Code: FG)

Statistician (PI: Richards), National Institutes of Health/NIA R01AG034682: Mild Cognitive Impairment and Obstructive Sleep Apnea. September 2011 to August 2014. (Code: R01)

Statistician (PI: Naylor), Jointly sponsored by the Gordon and Betty Moore Foundation, the Jonas Center for Nursing Excellence, and the Alex and Rita Hillman Foundation: Effects of Patient Centered Medical Home Plus Transitional Care for Complex Older Adults. August 2011 to July 2014. (Code: O)

Statistician (PI: Hirschman), National Institutes of Health/NIA R03AG040320: Palliative Needs of Cognitively Impaired Patients During Health Care Transactions. September 2011 to December 2013. (Code: R03)

Statistician (PI: Kim), National Institutes of Health/NINR K99NR013177: An Objective Snoring Index and Its Association with Carotid Atherosclerosis. September 2011 to April 2013. (Code: K99/R00)

Statistician (PI: Chirinos), National Institutes of Health/NHLBI R01HL080076: Inflammatory Response to Sleep Apnea in Obese Subjects. May 2006 to April 2013. (Code: R01)

Co-Investigator (PI: Medoff-Cooper), Children's Hospital of Philadelphia: Improving feeding for the late preterm infant-a pilot study. January 2011 to November 2012. (Code: O)

Co-Investigator (PI: Naylor), National Institutes of Health/NIA R01AG025524: Health Related Quality of Life: Elders in long-term care. September 2006 to May 2012. (Code: R01)

Co-Investigator (PI: Naylor), University of Pennsylvania, Marian S. Ware Alzheimer Program: Continuity of Care Component. July 2009 to April 2012. (Code: PG)

Co-Investigator (PI: Brown), National Institutes of Health/NHBLI R01HL085497: Genetics of In Vivo and In Vitro Endothelial Function in African Americans. April 2007 to March 2012. (Code: R01)

Co-Investigator (PI: Nelson), National Institutes of Health/DHHS R01HD038856: BV- Associated Bacteria and Adverse Pregnancy Outcomes among Urban Women. April 2008 to March 2012. (Code: R01)

Co-Investigator (PI: Bowles), Edna G. Kynett Memorial Foundation: Getting the Right Care for the Right Patient: Breaking the Cycle of Heart Failure Readmission. November 2010 to October 2011. (Code: O)

Co-Investigator (PI: Hausman), National Institutes of Health/CDC U49CE001093: Violence Prevention Center Research. September 2006 to August 2011. (Code: U49)

Co-Investigator (PI: Bruner), National Institutes of Health/NCI R21CA140766: Randomized Feasibility Study of Dilator Use and an Educational Program to Increase Compliance After Vaginal Brachytherapy for Endometrial Cancer. September 2009 to August 2011. (Code: R21)

Co-Investigator (PI: Medoff-Cooper), Cardiac Center Pilot Funds, Children's Hospital of Philadelphia: Sleep Patterns and Maternal Stress. September 2009 to August 2011. (Code: O)

Co-Investigator (PI: Meghani), National Institutes of Health/NINR R01NR011591: A Novel Approach to Elucidate Mechanisms for Disparity in Cancer Pain Outcomes. January 2010 to July 2011. (Code: R01)

Co-Investigator (PI: Rhodes), National Institutes of Health/NICHHD R01HD004415: Community Health Center Intervention to Prevent Family Violence. September 2009 to July 2011. (Code: R01)

Statistician (PI: Riegel), National Institutes of Health/NHLBI R01HL084394: Impact of sleepiness on heart failure self-care. April 2007 to March 2011. (Code: R01)

Statistician (PI: Sawyer), National Institutes of Health K99NR011173: Risk Assessment and Tailored Intervention to Improve CPAP Adherence. April 2009 to March 2011. (Code: K99/R00)

Co-Investigator (PI: Ulrich), Pennsylvania Tobacco Funds: Radiation Therapy Oncology Group: Attrition in Radiation Therapy Oncology Trials: A 20 Year Retrospective Review. January 2007 to December 2010. (Code: O)

Co-Investigator (PI: Martin), National Institutes of Health/DHHS R01DC001924: Lexical Retrieval, Verbal Short-Term Memory and Learning. May 2005 to November 2010. (Code: R01)

Co-Investigator (PI: Watkins-Bruner), National Institutes of Health/NCI R01CA114321: Ethnic Differences in Media Response and Recruitment. September 2006 to August 2010. (Code: R01)

Co-Investigator (PI: Medoff-Cooper), Cardiac Center Pilot Funds, Children's Hospital of Philadelphia. September 2010 to August 2011. (Code: O)

Co-Investigator (PI: Bove), AHRQ/DHHS R18HS017202: Using a Telemedicine System to Promote Patient Care Among Underserved Individuals. September 2007 to August 2010. (Code: R18)

Co-Investigator (PI: Neiman), Pennsylvania Department of Health: Commonwealth Universal Research Enhancement (CURE) Program – Project 2: Identifying Interventions for Cancer Patients at High Risk for Poor Outcomes. January 2010 to June 2010. (Code: O)

Co-Investigator (PI: Boden), Pennsylvania Department of Health MSA Funds: Community and Internet-Based Treatment for Obese Adults with CVD Risk. June 2006 to May 2010. (Code: O)

Co-Investigator (PI: Naylor), National Institutes of Health/NIA R01AG025524: Health Related Quality of Life: Elders in Long-Term Care. June 2009 to May 2010. (Code: R01)

Statistician (PI: Bowles), National Institutes of Health/NINR R01NR008923: Promoting Self- Care with Telehomecare: Impact on Outcomes. January 2010 to May 2010. (Code: R01)

Co-Investigator (PI: Masalko), National Institute of Mental Health R03MH080820: Cohort Study of Lifecourse Patterns of Religious Service Attendance and Risk of Psychopathology. August 2008 to April 2010. (Code: R03)

Statistician (PI: Neiman), Pennsylvania Department of Health: Commonwealth Universal Research Enhancement (CURE) Program – Project 1: Factors Associated with Attrition in Radiation Therapy Oncology Trials: A 20 Year Review. January 2010 to December 2013. (Code: O)

Statistician (PI: Molinoff), Pennsylvania Department of Health: Identification of Barriers and Facilitators to Oncology Clinical Trials Recruitment. January 2006 to December 2009. (Code: O)

Co-Investigator (PI: Medoff-Cooper), National Institutes of Health/NINR R01NR/HL02093: Feeding Behaviors and Energy Cost in Infants with CHD. September 2002 to May 2009. (Code: R01)

Co-Investigator (PI: Belenko), National Institutes of Health/DHHS R01DA020346: The Risk of Sexually Transmitted Disease Among Adolescents Involved in the Juvenile Justice System. August 2006 to July 2008. (Code: R01)

Co-Investigator (PI: Lepore), National Institutes of Health/NCI R01CA104223: Prostate Cancer Education in African American Men. September 2004 to June 2008. (Code: R01)

Co-Investigator (PI: Collins), Pennsylvania Department of Health MSA Funds: Behavioral Mechanism of Cue Exposure Treatment for Smoking Relapse Prevention: A Feasibility Trial with Bupropion. August 2006 to January 2008. (Code: O)

Co-Investigator (PI: Gold), National Institutes of Health/National Institute for Occupational Safety and Health K01OH008134: Skin Temperature in the Hands of Office Worker. September 2005 to August 2006. (Code: K01)

Co-Investigator (PI: Young), National Institutes of Health/NCI P30CA06927: Comprehensive Cancer Center Program: Core grant funds, August 2000 to June 2005. (Code: P30)

Co-Investigator (PI: Pollack), National Institutes of Health/DHHS R01CA101984: Radiation, Hormones and Antisense Prostate Cancer Therapy. September 2003 to June 2005. (Code: R01)

Co-Investigator (PI: Bruner), Department of Defense DAMD17-02-1-0055: Preferences and Utilities for Prostate Cancer Screening and Treatment: Assessment of the Underlying Decision- Making Process. January 2002 to June 2005. (Code: FG)

Co-Investigator (PI: Bruner), American Cancer Society RPG-00-208-01-CCE: Improving Time Trade-off for Utility Analysis of Prostate Cancer Therapies. July 2000 to June 2004. (Code: O)

Principal Investigator (**PI: Hanlon**), Department of Defense DAMD17-01-1-0056: Hierarchical Nonlinear Mixed Effects Modeling: Defining Post-Radiation Therapy Relapse in Prostate Cancer Patients. July 2001 to June 2003. (Code: FG)

Co-Investigator (PI: Bruner), Oncology Nursing Foundation/Amgen Inc.: Determination of Preferences and Utilities for the Treatment of Prostate Cancer. May 1998 to May 2000. (Code: O)

Co-Investigator (PI: Hanks), National Institutes of Health/NCI CA65435: Patterns of Care Study in Radiation Oncology. October 1994 to October 1997. (Code: PP)

Co-Investigator (PI: Hanks), National Institutes of Health/NCI N01CM87275: Patterns of Care Study in Radiation Oncology. October 1988 to October 1994. (Code: N01)

### **FCCC Clinical Protocols (supported through Fox Chase Cancer Center):**

Co-investigator (PI: Altobelli), FCCC 00-844: A Pilot Study Comparing Anxiety Levels of Women Diagnosed with Invasive versus Noninvasive Breast Cancer. October 2000 to July 2005.

Co-investigator (PI: Horwitz), FCCC 97-026: A Phase I Prospective Study of Three-Dimensional Conformal External Beam Radiotherapy and Two Conformal Iridium 192 High-Dose Rate Brachytherapy Boosts for Unfavorable Prostate Cancer with a Prostate Tumor Oxygenation Analysis. March 1998 to July 2005.

Co-investigator (PI: Bruner), FCCC 96-091: Development of a Prostate Risk Assessment Program. November 1997 to July 2005.

Co-investigator (PI: Konski), FCCC 96-071: A Phase II Study of Hyper fractionated Pre- Op Chemo-Radiation for Locally Advanced Rectal Cancer. August 1996 to July 2005.

Co-investigator (PI: Movsas), FCCC 95-018: A Phase II Trial of Hyper fractionated Irradiation for Clinically Staged Favorable Hodgkin's Disease. July 1995 to December 1999.

Co-investigator (PI: Movsas), FCCC 95-068: A Phase III Trial of Oral Sucralfate Versus Placebo for the Prophylaxis of Acute and Chronic Bowel Dysfunction After Pelvic Irradiation. June 1995 to February 2000.

Co-investigator (MPI: Coia, Lanciano), FCCC 93-040: A Phase I Study of Hyper fractionated Pre-Op Chemo-Radiation for Locally Advanced Rectal Cancer. June 1993 to May 1996.

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## **PUBLICATIONS**

### **Invited Articles:**

**Hanlon, A.**, Kolb R., Lozano A. (2023). JEDI Corner: Biostatistics Program Gives Students Real-World Experience. In *Amstat News*, April, 550, 26. [https://magazine.amstat.org/wp-content/uploads/2023/03/AMSTAT\\_April2023.pdf](https://magazine.amstat.org/wp-content/uploads/2023/03/AMSTAT_April2023.pdf)

**Hanlon, A.** (2023). My ASA Story. In *Amstat News*, Feb, 548, 10. <https://magazine.amstat.org/wp-content/uploads/2023/01/AmstatFebruary.pdf>

**Hanlon, A.** (2016). The Collaborating Statistician: Publishing in a Peer Review Journal. In *Stattrak*, March 1. Available at <http://stattrak.amstat.org/2016/03/01/Hanloncollab16/>

### **Peer Reviewed Journal Articles:**

Baugh, M. E., Ahrens, M. L., Burns, A. K., Sullivan, R. M., Valle, A. N., **Hanlon, A. L.**, & DiFeliceantonio, A. G. (2025). Metrics of Glycemic Control but not Body Weight Influence Flavor Nutrient Conditioning in Humans. *Science Direct*, 301, 115037. <https://doi.org/10.1016/j.physbeh.2025.115037>

- Pellegrin, K. L., Barbour, T. B., Lozano, A. J., & Hanlon, A. L. (2025). Social Vulnerability Predictors of Acute Care: Leveraging Health Information Exchange Data to Understand Social Determinants at the Census Tract Level in a Correlational Study. *Health Science Reports*, 8(10):e71257. <https://doi.org/10.1002/hsr2.71257>
- Stein, J. S., Le, N. T., Lozano, A. J., Bickel, W. K., & Hanlon, A. L. (2025). Narrative simulation of financial scarcity: Effects on delay discounting, cigarette craving, and cigarette demand in adults who smoke cigarettes. *Experimental and Clinical Psychopharmacology*. Advance Online Publication. <https://doi.org/10.1037/pha0000802>.
- Downey, H., Alvarez, A., Ji, W., Lozano, A., Hanlon, A. L., Stein, J. S. (2025). Perceived reward certainty in the assessment of delay discounting. *Journal of the Experimental Analysis*, 124(2), e70044. <https://doi.org/10.1002/jeab.70044>
- Turner, J. K., Grubb, C., Britz J., Hanlon, A. L., Epling, J. W., Rockwell, M. S. (2025). Variation in Inappropriate Opioid Prescribing for Adults with Acute Pain in Rural vs. Non-Rural Virginia. *Population Health, Equity & Outcomes (PHEO)*. (Not yet publicly available)
- Rockwell, M. S., Grubb, C., Turner, J. K., Vinson, M., Yim, I., Hanlon, A. L., & Epling, J. W. (2025). Disproportionate High-Risk Nonsteroidal Anti-inflammatory Drug (NSAID) Prescribing in Rural Virginia. medRxiv, 2025-01.(preprint) <https://doi.org/10.1101/2025.01.03.25319965>
- 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. (2025). Treatment of Restless Legs Syndrome Improves Agitation and Sleep in Persons with Dementia: A Randomized Trial. *Journal of the American Medical Directors Association*, 26(5), 105485. <https://doi.org/10.1016/j.jamda.2025.105485>
- Platt, A., Pomann, G.M., Rende, L., Truong, T., Boulos, M., Carlson, N.E., Desai, M., Elam, M., Slade, E., Hanlon, A. and Hurst, J., (2025). A Guide to Successful Management of Data Science Collaborative Partnerships in Academic Health Centers. *Journal of Clinical and Translational Science*, 9(s1), 170-170. <https://doi.org/10.1017/cts.2024.1148>
- Sharp, J., Griffith, E. H., Craig, B. A., Hanlon, A., Peskoe, S., & Van Mullekom, J. (2024). The Current Landscape of Academic Statistical and Data Science Collaboration Units with Examples. *Stat*, 13(3), e718. <https://doi.org/10.1002/sta4.718>
- Ogunmayowa, O., Lozano, A., Hanlon, A., Cook, N., Paige, F., & Baker, C. (2025). Historical Redlining and Current Neighborhood Social Vulnerability in the United States. *Environmental Justice*, 18(1), 17-28. <https://doi.org/10.1089/env.2023.0012>
- Lozano A., Ahrens, M., Lyons, G., Ma, J., Ratcliffe, S., Hanlon, A. (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).
- McHugh, M., Hirschman, K. B., Toles, M. P., Ahrens, M., Morgan, B., Osokpo, O., Shaid, E. C., McCauley, K., Hanlon, A.L., Pauly, M. V., Naylor, M. D. (2024). Implementing the MIRROR-TCM Randomised Control Trial During the COVID-19 Pandemic: A Mixed-Methods Evaluation. *Journal of Advanced Nursing, Special Issue: Implementation Science in Nursing*. <https://doi.org/10.1111/jan.16594>
- 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\*Biography\*Physics*, 120(2), e302. <https://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. *Clinical and Translational Radiation Oncology*, 48, 100847. <https://doi.org/10.1016/j.ctro.2024.100847>
- Kelly A. L., Baugh M. E., Ahrens M. L., Valle A. N., Sullivan R. M., Oster M. E., Fowler M. E., Carter B. E., Davy B. M., **Hanlon A. L.**, DiFeliceantonio A. G. (2024). Neural and metabolic factors in carbohydrate reward: Rationale, design, and methods for a flavor-nutrient learning paradigm in humans. *Contemporary Clinical Trials*, 147, 107717. <https://doi.org/10.1016/j.cct.2024.107717>
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## Chapters In Books:

Cooper, B.M., Marino, B.S., Fleck, D.A., Lisanti, A.J., Golfenshtein, N., Ravishankar, C., Costello J.M., Huang, L., **Hanlon, A.L.**, Curley, M.A.Q. (2022). Telehealth Home Monitoring and Postcardiac Surgery for Congenital Heart Disease. In Pediatric Telehealth Best Practices, American Academy of Pediatrics (pp. 129-138).

Fowble, B. L., Rosser, C., **Hanlon, A. L.** (1998). Conservative Surgery and Radiation for Stages I and II Breast Cancer. In K. I. Bland I. Copeland E. M. (Eds.), The Breast: Comprehensive Management of Benign and Malignant Diseases: Vol. Second Edition (pp. 1172–1178). Saunders.

Hanks, G. E., Lee, W. R., **Hanlon, A. L.**, Schultheiss, T. E. (1995). Prostate Cancer and PSA Doubling Times as an Indicator of Tumor Doubling. In H. D. Kogelnik (Ed.), Progress in Radio- Oncology V (pp. 99–103). Monduzzi Editore.

Hanks, G. E., **Hanlon, A. L.**, Lee, W. R., Hunt, M. A., Schultheiss, T. E. (1995). Conformal Treatment of Prostate Cancer: Effects on Cancer Control and Morbidity. In H. D. Kogelnik (Ed.), Progress in Radio-Oncology V (pp. 341–345). Monduzzi Editore.

### **Abstracts:**

A full list of abstracts can be found at:

[https://biostat.centers.vt.edu/people/alexandra\\_hanlon.html](https://biostat.centers.vt.edu/people/alexandra_hanlon.html)

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## **PRESENTATIONS**

“Community for Rigor,” Society for Neuroscience, San Diego, CA, November 2025

“Innovations in Incorporating Collaborative Skills Throughout the Statistical Training Pathway.” Joint Statistical Meetings 2025, Nashville, TN, August 2025 (Invited Session)

“CUBE: A Collaborative Undergraduate Biostatistics Experience to Bring Diversity and Awareness to the Field of Collaborative Biostatistics.” 14<sup>th</sup> Annual Hawaii University International Conference on STEM/STEAM and Education, Honolulu, HI, June 2025

“Advancing Equity: Innovative Education and Training Practices for Inclusive Health Data Science.” Translational Science 2025, Washington, DC, April 2025

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

“Pipelines, Processes, and Presentations: How to Manage a Collaborative Biostatistics Group.” Eastern North American Region – International Biometric Society, New Orleans, March 2025 (Invited Session)

“The Health Equity Hat, A Timeless Accessory in Your Biostatistics Wardrobe: Learn How to Wear It Proudly.” Women in Statistics and Data Science, October 2024

“QSN Mentoring Webinar.” Invited Key Speaker for the Quantitative Staff Network, Webinar, September 2024

“Collaborative Resources in Academic Health Centers.” Joint Statistical Meetings, Opening Mixer’s Invited Poster Session, Portland, OR, August 2024

“Pioneering Pathways: Collaborative Biostatistics in the Era of Data Science.” Invited Speaker for UC Anschutz’s Biostatistics and Informatics Seminar Series, Denver, CO, May 2024

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

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

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

“CS09 Concurrent Panel: Training the Next Generation of Statistical Consultants.” 2024 ASA Conference on Statistical Practice, New Orleans, Louisiana, February 2024

“Research Partnership between Virginia Tech and the FAACT Program.” SAMHSA Prevention Day, National Harbor, MD, January 2024 (Invited Session)

“Strategies for Successfully Scoping and Tracking Collaborative Statistical Work.” Joint Statistical Meetings, Toronto, Canada, August 2023

“Teaching Statistics in Health Sciences: Successful Approaches to Teaching Statistical Consulting.” American Statistical Association’s Section on Teaching Statistics in the Health Sciences Spring Webinar, May 2023

“Mitigating Health Disparities by Addressing Systematic Implicit Bias in Clinical Prediction Models.” Translational Science 2023, Washington, DC, April 2023

“Careers in Biostatistics and Health Data Science.” Women in Data Science Blacksburg Conference, WiDS, Blacksburg, VA, April 2022

“Taking the ‘I’ out of Collaborative Biostatistics.” Sesquicentennial Hokietalk: Celebrating a 100 Years of Women at Virginia Tech, March 2022

“It’s Never Too Early to Develop Leadership Skills.” Women in Statistics and Data Science Conference, American Statistical Association, October 2021

“Adapting to the Changing Landscape of Academic Statistical Collaboration.” International Conference on Advances in Interdisciplinary Statistics and Combinatorics (AISC), University of North Carolina at Greensboro, October 2021

“Collaborative Research in the Health Sciences at Virginia Tech.” Virginia Tech Applied Research Corporation (VT-ARC) Technology Group, September 2021

“Team Science at the Center for Biostatistics and Health Data Science.” Science of Team Science Conference, Virginia Tech, June 2021

“Big Data Requires Team Science.” Podcast #StartDisrupting with Brett Malone, Virginia Tech Corporate Research Center, April 2021

“COVID-19 Vaccines – Clinical Trial Considerations.” The Design of Experiments Educational Specialization, Doug Montgomery’s Monthly Fireside Chat, Arizona State University, April 2021

“Predictive Analytics Meets Pandemic.” Virginia Tech Alumni Association Webinar Broadcast, June 2020

“The Juggling Collaborative Statistician: Which Balls to Drop.” American Statistical Association’s 2019 Joint Statistical Meetings, Denver, CO, August 2019

“Biostatistics and Data Science in Drug Discovery Partnerships.” The Virginia Drug Discovery Consortium’s Rx: Emerging Targets, Technologies, and Therapeutics for Cancer and Neuroscience Symposium, Roanoke, VA, May 2019

“Finding the Right Academic Fit: Experiences from Faculty Across the Academic Spectrum.” International Biometric Society’s Annual Eastern North American Region Spring Meeting, Philadelphia, PA, March 2019

“Acute Respiratory and Cardiovascular Outcomes Associated with Low Levels of Ambient Fine Particular Matter (PM<sub>2.5</sub>) on the Island of Oahu.” Hawaii International Conference on System Sciences, Maui, HI, January 2019

“Sleep Duration and Chronotype Associated with Cardio-metabolic and Cardiovascular Outcomes Even After Adjustment for other Risk Factors.” SLEEP 2016, Denver, CO, June 2016

“Inadequate Sleep and Evening Chronotype Predict Poor Cardiovascular Health Outcomes.” American Heart Association Epidemiology and Lifestyle Meeting, Phoenix, AZ, March 2016

“Racial Disparities in Sleep Duration and Timing May Account for Cardiovascular Disease Disparities.” Society of Behavioral Medicine Annual Meeting, Washington, DC, March 2016

“Long Sleep and Evening Type Associated with Poor Cardiovascular Health Behaviors.” Cardiovascular Health Symposium, University of Delaware, Newark, DE, October 2015

“Population Assessment of Sleep Duration, Chronotype, and Body Mass Index.” The Society of Behavioral Medicine Annual Meeting, San Antonio, TX, April 2015

“Writing a Scientific Paper for Peer Reviewed Publication.” American Statistical Association’s Conference on Statistical Practice, New Orleans, LA, February 2015

“Multiple Treatment Groups: A Case Study with Health Care Practice and Policy Implications.” American Statistical Association’s Joint Statistical Meetings, Boston, MA, August 2014

“Teaching Statistics in the Health Sciences: How to Engage a Busy Bunch of Docs.” American Statistical Association’s Joint Statistical Meetings, Montreal, CA, August 2013

“Development of a Biostatistics Business Model in Nursing.” American Statistical Association’s Conference on Statistical Practice, New Orleans, LA, February 2013

“Symposium: Health Related Quality of Life among Long-term Services and Support Recipients: A Longitudinal Analysis, Methodological Considerations.” The Gerontological Society of America’s 64<sup>th</sup> Annual Scientific Meeting, San Diego, CA, November 2012

“Building a Biostatistics Business Model in the School of Nursing.” American Statistical Association’s Joint Statistical Meetings, San Diego, CA, August 2012

“Using Full Matching to Estimate Causal Effects in a Non-Experimental Study: Effects of a Nursing Intervention on Rehospitalizations of Cognitively Impaired Older Adults.” American Statistical Association’s Conference on Statistical Practice, Orlando, FL, February 2012

“Evaluating the risk of contralateral neck failure in patients with SCC of the tonsil treated only to the ipsilateral tonsil and neck for N+ disease.” American Society for Therapeutic Radiology and Oncology, Multidisciplinary Head and Neck Symposium, Rancho Mirage, CA, January 2007

“Adjusted Radiotherapy Dose Response Curves Following Treatment for Prostate Cancer: Biochemical Failure and Distant Metastasis.” American Society for Therapeutic Radiology and Oncology, 48<sup>th</sup> Annual Meeting, Philadelphia, PA, November 2006

“Year 4 Evaluation Results of Leadership 101, an After-School Program for Urban, Primarily African American, Adolescents: Reducing Risk Among Middle School Students and Keeping Strong High School Students Strong.” Office of Adolescent Pregnancy Programs Evaluation Conference, Pittsburgh, PA, September 2006

"Focus on Adolescent/Teen Health Issues: Evaluation of the Leadership 101 Program." Invited Speaker for Crozer Keystone Health System Quality Day, Drexel Hill, PA, May 2006

"Predictors of Hormone Refractory Disease in Men Treated with Salvage Androgen Deprivation Following Definitive Radiotherapy for Prostate Cancer." American Society for Therapeutic Radiology and Oncology, 47th Annual Meeting, Denver, CO, November 2005

"Identification of Groups at Risk for Distant Metastasis and Death in Men with a Rising PSA after Radiotherapy for Prostate Cancer." American Society for Therapeutic Radiology and Oncology, 46th Annual Meeting, Atlanta, GA, October 2004

"Predictors of Death in Men with Prostate Cancer Treated with Salvage Androgen Deprivation." American Radium Society, 86th Annual Meeting, Sonoma, CA, May 2004

"A Bayesian Approach to Hierarchical Nonlinear Mixed Effects Modeling: Defining Post- Radiation Therapy Relapse in Prostate Cancer Patients." Invited Presentation at the Annual Scientific Retreat for the Prostate Cancer Foundation, New York, NY, November 2003

"Post-radiotherapy PSA nadir remains highly predictive of outcome in men who are biochemically free of disease at 1.5 years post-treatment." American Society for Therapeutic Radiology and Oncology, 45th Annual Meeting, Salt Lake City, UT, October 2003

"Short Term Androgen Deprivation and PSA Doubling Time: Their Relationship to One Another and to Disease Progression Following Radiation Therapy for Prostate Cancer." American Society for Therapeutic Radiology and Oncology, 44th Annual Meeting, New Orleans, LA, October 2002

"Model-Based Prediction of Biochemical Failure in Prostate Cancer Patients Following Radiation Therapy" (with Dirk Moore). American Society for Therapeutic Radiology and Oncology, 44th Annual Meeting, New Orleans, LA, October 2002

"Predicting the future profile of PSA levels following radiation therapy for prostate cancer" (with Dirk Moore). American Statistical Association Annual Meetings, New York, NY, August 2002

"Post Treatment PSA Nadir as an Independent Predictor of Distant Metastasis Following Radiotherapy for Prostate Cancer." American Radium Society, 84<sup>th</sup> Annual Meeting, Puerto Rico, April 2002

"Post-Treatment PSA Nadir is Highly Predictive of Distant Failure and Ultimate Death Due to Prostate Cancer." American Society for Therapeutic Radiology and Oncology, 43<sup>rd</sup> Annual Meeting, San Francisco, CA, November 2001

"Statistical Issues in Prostate Cancer QoL and Economic Trials." American Society for Therapeutic Radiology and Oncology, 43<sup>rd</sup> Annual Meeting, San Francisco, CA, November 2001

"Survey Results: QoL Statistical Issues, Utilities, and Cost-Effectiveness." American Society for Therapeutic Radiology and Oncology, 43<sup>rd</sup> Annual Meeting, San Francisco, CA, November 2001

"Random Effects models for modeling PSA levels following radiation therapy" (with Dirk Moore). American Statistical Association Annual Meetings, Atlanta, GA, August 2001

"Patterns and Fate of PSA Bouncing Following 3DCRT." American Society for Therapeutic Radiology and Oncology, 42<sup>nd</sup> Annual Meeting, Boston, MA, October 2000

"Long Term QOL Study in Prostate Cancer Patients Treated with 3DCRT: Comparing Bowel and Bladder QOL Symptoms to that of the Normal Population." Invited Speaker at Radiological Society of North America, 85<sup>th</sup> Scientific Assembly and Annual Meeting, Chicago, IL, November 1999

"Long Term QOL Study in Prostate Cancer Patients Treated with 3DCRT: Comparing Bowel and Bladder QOL Symptoms to that of the Normal Population." American Society for Therapeutic Radiology and Oncology, 41<sup>st</sup> Annual Meeting, San Antonio, TX, October 1999

"Hierarchical Nonlinear Mixed Effects Modeling of PSA Levels in Prostate Cancer." Invited Speaker at Statistical Issues in Modeling PSA Data, The University of Michigan Comprehensive Cancer Center, Ann Arbor, MI, July 1999

"Scrutiny of the ASTRO Consensus Definition of Biochemical Failure in Irradiated Prostate Cancer Patients Demonstrates its Usefulness and Robustness." Invited Speaker at Second Sonoma Conference on Prostate Cancer, Sonoma, CA, June 1999

"Modeling Post-Radiation PSA Level Kinetics: Predictors of Rising Post-Nadir Slope Suggest Cure in Men Who Remain Biochemically Free of Prostate Cancer." American Society for Therapeutic Radiology and Oncology, 40<sup>th</sup> Annual Meeting, Phoenix, AZ, October 1998

"On the Estimation of Cause-Specific Failure Probability and Risk: Misinterpretation, Bias, and Incomplete Analyses." American Society for Therapeutic Radiology and Oncology, 39<sup>th</sup> Annual Meeting, Orlando, FL, October 1997

"Results of an Outcome Prediction Model for Prostate Cancer Based on Proportional Hazards Modeling." American Radium Society, 79<sup>th</sup> Annual Meeting, New York, NY, April 1997

"Chronic Rectal Bleeding After High Dose Conformal Treatment of Prostate Cancer Warrants Modification of Existing Morbidity Scales." American Society for Therapeutic Radiology and Oncology, 38<sup>th</sup> Annual Meeting, Los Angeles, CA, October 1996

"Pretreatment PSA Doubling Times: Clinical Utility of This Predictor of Prostate Cancer Behavior." American Society for Therapeutic Radiology and Oncology, 37<sup>th</sup> Annual Meeting, Miami, FL, October 1995

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## **RESEARCH/EDUCATIONAL CONSULTATION**

2022 to present	Biostatistics Consultant, Moleculin Biotech, Houston, TX
2020 to 2021	Biostatistics Consultant, Neoneur, Pennington, NJ
2020 to 2021	Biostatistics Consultant, Fair Health, New York, NY
2020	Biostatistics Consultant, Hope Pharmaceuticals, Scottsdale, AZ
2019 to 2021	Biostatistics Consultant, Blade Therapeutics, Inc., South San Francisco, CA
2019 to 2021	Biostatistics Consultant, Turn-Key Health Division, Philadelphia, PA
2019 to 2020	Biostatistics Consultant, Department of Radiation Oncology, University of Pennsylvania School of Medicine, Philadelphia, PA
2018 to present	Biostatistics Consultant, New York Proton Center, New York, NY
2018	Biostatistics Consultant, University of Pittsburgh Medical Center, Pittsburgh, PA
2016 to 2017	Visiting Scholar, Bryn Athyn College, Bryn Athyn, PA
2015 to 2023	Biostatistics Consultant, College of Pharmacy, University of Hawaii, Hilo, HI
2014 to 2022	Biostatistics Consultant, Weight Watchers, New York, NY
2014 to 2018	Biostatistics Consultant, College of Health Sciences, University of Delaware, Newark, DE
2014	Biostatistics Consultant, Department of Radiation Oncology, University of

California at San Francisco, San Francisco, CA

- 2013 Biostatistics Consultant, Department of Radiation Oncology, Stanford University, Palo Alto, CA
- 2012 to 2023 Biostatistics Consultant, Philadelphia CyberKnife, Havertown, PA
- 2012 to 2023 Biostatistics Consultant, Crozer-Chester Medical Center, Crozer, PA
- 2012 to 2014 Biostatistics Consultant, Department of Public Health, Temple University, Philadelphia, PA
- 2011 Biostatistics Consultant, Rockburn Institute, Elkridge, MD
- 2010 to 2018 Biostatistics Consultant, Department of Radiation Oncology, University of Maryland School of Medicine, Baltimore, MD
- 2009 Biostatistics Consultant, Department of Radiation Oncology, Indiana University School of Medicine, Indianapolis, IN
- 2009 Biostatistics Consultant, American College of Radiology, Radiation Therapy Oncology Group, Philadelphia, PA
- 2005 to 2017 Evaluator, Youth Development Programs, Crozer School District, Crozer, PA
- 2004 to present Biostatistics Consultant, Helen F. Graham Cancer Center, Christiana, DE
- 2004 to 2009 Biostatistics Consultant, Fox Chase Cancer Center, Philadelphia, PA
- 1990 to 1991 Biostatistics Consultant, UC Irvine Medical School, Irvine, CA

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## **MEETING/CONFERENCE ORGANIZING ROLES**

- 2025 Organizer, Addressing Rigor and Reproducibility in Translational Science through the Community for Rigor (C4R) Initiative, Translational Science 2025, Washington, DC, April 2025
- 2025 Organizer, Advancing Mid-Level Collaborative Biostatisticians in Historically Marginalized Groups: Challenges, Recommendations, and Strategies, Eastern North American Region – International Biometric Society, New Orleans, March 2025
- 2024 Organizer, Training, Retaining, and Promoting Staff Collaborative Biostatisticians in the Academic Health Setting, Translational Science 2024, Las Vegas, NV
- 2024 Co-Organizer, Programs to Bring Awareness to, and Diversify, the Field of Biostatistics and Health Data Science, Translational Science 2024, Las Vegas, NV
- 2024 Co-Organizer, Introducing Health Equity Engineering: Shifting from Research Representation to Intervening to Improve Health Outcomes, Translational Science 2024, Las Vegas, NV
- 2023 Co-Organizer, Strategies for Successfully Scoping and Tracking Collaborative Statistical Work, Joint Statistical Meetings, Toronto, Canada

- 2023 Organizer, Mitigating Health Disparities by Addressing Systematic Implicit Bias in Clinical Prediction Models, Translational Science 2023, Washington, DC
- 2023 Co-Organizer, "Discussion with Colleagues", College of Science, Virginia Tech, Blacksburg, VA, June 2023
- 2023 Co-Organizer (CBHDS), "Research Resources Open House", Fralin Life Sciences Institute, Virginia Tech, Blacksburg, VA, April 2023
- 2022, 2023 Co-Organizer (CBHDS), Women in Data Science (WiDS) Blacksburg Regional Conference, Virginia Tech, Blacksburg, VA, April 2022 and April 2023
- 2020 Session Chair, Joint Statistical Meetings, "Everyone Counts: Data for the Public Good", Virtual Conference, August 2020
- 2019 Program Chair, Joint Statistical Meetings, "Artificial Intelligence," Council of Chapters Invited Session at Large, Denver, Colorado, August 2019
- 2019 Organizer, Virtual Workshop on Mentorship in Chapters, Council of Chapters Governing Board Member (COCGB) Initiative, Alexandria, Virginia
- 2018 Organizer, Joint Statistical Meetings, Council of Chapters Governing Board Business Meeting, Vancouver, Canada, August 2018
- 2018 Organizer, Face-to-Face Council of Chapters Governing Board Business Meeting, Alexandria, VA, February 2018
- 2017 Organizer, Joint Statistical Meetings, Council of Chapters Governing Board Officer Appreciation Workshop "A First Glance at What We are Doing with the Stimulus Funds Initiative", Baltimore, Maryland, August 2017
- 2014 Co-organizer, Joint Statistical Meetings, Topic Contributed Session "Collaborative Statisticians Advancing Their Careers in an Academic Setting", Boston, Massachusetts, August 2014
- 2014 Session Chair, Conference on Statistical Practice, Organizational Impact, Tampa, Florida, February 2014
- 2012 Co-organizer, American Statistical Association--Philadelphia Chapter's Late Summer Workshop, "Workshop on Data Safety Monitoring Boards in Clinical Trials," Dr. Jay Herson, Senior Associate, Biostatistics, Johns Hopkins Bloomberg School of Public Health, September 2012
- 2012 Co-organizer, American Statistical Association--Philadelphia Chapter's Spring Short Course, "Applied Survival Analysis," Dr. Susanne May, Professor, Department of Statistics, University of Washington, March 2012
- 2012 Co-organizer, American Statistical Association—Philadelphia Chapter's Mid-Winter Gathering, "Uneducated Guesses: Three examples of how mistreating missing data yields misguided educational policy," Dr. Howard Wainer, Distinguished Research Scientist, National Board of Medical Examiners, and Adjunct Professor of Statistics, Wharton School of the University of Pennsylvania, January 2012
- 2011 Co-organizer, American Statistical Association—Philadelphia Chapter's Fall Short Course and Social Mixer, "Propensity Score Methods for Estimating Causal Effects," Dr. Elizabeth Stuart, Associate Professor in Mental

Health/Biostatistics, Johns Hopkins Bloomberg School of Public Health,  
October 2011

- 2011 Co-organizer, American Statistical Association—Philadelphia Chapter's Summer Meeting, "New Directions and Development Paths for Statisticians in Pharmaceutical R&D" Dennis Cosmatos, Parexel International, June 2011
- 2011 Co-organizer, American Statistical Association—Philadelphia Chapter's Spring Short Course, "Applied Mixed Models", Dr. Linda Young, Professor, Department of Statistics, University of Florida, April 2011
- 2011 Co-organizer, American Statistical Association—Philadelphia Chapter's Mid-Winter Gathering, "A New Portrait of America: A Look at an Aging Multicultural America", Whittona Burrell, US Census Bureau, Philadelphia Regional Office, January 2011
- 2010 Moderator/Chairperson, Penn-ICOWHI 18th International Congress 2010 – Cities and Women's Health: Global Perspectives, "New Data-Based Interventions for Old Problems", University of Pennsylvania, April 2010
- 2010 Co-organizer, American Statistical Association—Philadelphia Chapter's Summer Course, "The Use of R through Excel," Dr. Richard Heiberger, Temple University, June 2010
- 2010 Co-organizer, American Statistical Association—Philadelphia Chapter's Spring Short Course, "Missing Data in Longitudinal Studies: Strategies for Bayesian Modeling and Sensitivity Analysis," Dr. Mike Daniels, Chair, Department of Statistics, University of Florida, April 2010
- 2010 Co-organizer, American Statistical Association—Philadelphia Chapter's Mid-Winter Gathering, "Live! From the American Statistical Association!" Dr. Ron Wasserstein, Executive Director of ASA, January 2010
- 2009 Co-organizer, American Statistical Association—Philadelphia Chapter's Summer Meeting, "Bayesian Analysis of Continuous and Categorical Data from Multicenter Trials," Dr. Larry Gould, Merck Research Labs, June 2009
- 2009 Co-organizer, American Statistical Association—Philadelphia Chapter's Spring Short Course, "Survival Analysis with Correlated or Repeated Endpoints," Dr. Terry M. Therneau, Division of Biostatistics and Informatics, Mayo Clinic, April 2009
- 2009 Co-organizer, American Statistical Association—Philadelphia Chapter's Mid-Winter Gathering, "Measures of Volatility in Economic Markets" Dr. Bob Stine, Wharton School at the University of Pennsylvania, January 2009
- 2008 Co-organizer, American Statistical Association—Philadelphia Chapter's Summer Short Course, Adaptive Designs for Dose Finding, June 2008
- 2008 Co-organizer, American Statistical Association—Philadelphia Chapter's Spring Meeting, "Developing the Biostatistics Program at Penn: Challenges of the Past and Visions for the Future," Dr. Richard Landis, University of Pennsylvania, April 2008
- 2008 Organizer, American Statistical Association—Philadelphia Chapter's Mid-Winter Gathering, "Communicating and Developing Professionals," Dr. Tony Lachenbruch, Oregon State University, January 2008

- 2007 Co-organizer, American Statistical Association—Philadelphia Chapter’s Spring Meeting, PK/PD Analysis and 3-Mile Island Mortality, Drs. Simon Zhou, Wyeth, Alan Hartford, Merck, Winston Richards, Penn State, April 2007
- 2007 Co-organizer, American Statistical Association—Philadelphia Chapter’s Mid-Winter Gathering, “The Use of Statistics in the Courtroom,” Dr. Will Fairley, Analysis and Inference, Inc. and Mary Gray, American University, January 2007
- 2006 Co-organizer, American Statistical Association—Philadelphia Chapter’s Fall Meeting, Symposium on Adaptive Designs, October 2006
- 2001 Statistics Chair, American Society for Therapeutic Radiology and Oncology 43rd Annual Meeting QOL and Economic Endpoints Committee, San Francisco, October 2001

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## EDUCATIONAL LECTURES BY INVITATION

- 2024 Grant Writing Workshop, CBHDS Annual Retreat, Virginia Tech, Roanoke, VA
- 2024 Writing for Publication in Peer Reviewed Journals, CUBE Summer Program, Virginia Tech, Roanoke, VA
- 2024 Analysis Challenges in Addiction Research, neuroSURF/CUBE Summer Program, Virginia Tech, Roanoke, VA
- 2024 Advanced Statistical Concepts in Addiction and Recovery Research, Working with a Collaborative Biostatistician, *Advanced Methods in Interdisciplinary Addiction and Recovery Research*, Eastern Tennessee State University, Johnson City, TN
- 2023 Design and Methodologic Challenges in Substance Use/Abuse, *Research Methods in Interdisciplinary Addiction and Recovery Research*, Eastern Tennessee State University, Johnson City, TN
- 2023 Data Analysis and Ethical Considerations, *Professional Development and Ethics*, TBMH Program, Virginia Tech, Roanoke, VA
- 2023 Writing for Publication in Peer Reviewed Journals, neuroSURF/CUBE Summer Program, Virginia Tech, Roanoke, VA
- 2023 Analysis Challenges in Addiction Research, neuroSURF/CUBE Summer Program, Virginia Tech, Roanoke, VA
- 2023 Working with a Collaborative Biostatistician, neuroSURF/CUBE Summer Program, Virginia Tech, Roanoke, VA
- 2021 COVID-19 Vaccines – Clinical Trial Considerations, Design of Experiments Educational Specialization, Doug Montgomery’s Monthly Fireside Chat, Arizona State University, Tempe, AZ
- 2020 Biostatistics 101: Analysis Planning, the Statistical Applications and Innovations Group (SAIG) and the Integrated Translational Health Research Institute of Virginia (iTHRIV), Virginia Tech, Blacksburg, VA
- 2019 Statistics 101: Analysis Planning, Office of Continuing Professional Development and the Office of Research and Development, Carilion Clinic, Philadelphia, PA

2019	Biostatistics Collaboration and Consultation in the Health Sciences, STAT 5024 Communication and Statistical Collaboration, Virginia Tech, Blacksburg, VA
2019	Data Analytics in Nursing: A Case Study, 2019 Math Awareness Conference, Old Dominion University, Norfolk, VA
2018	Effective Clinical Collaboration, six-week educational series for residents and fellows, Crozer Chester Medical Center, Philadelphia, PA
2017 to 2018	Contemporary Methods and Data Science: Case Studies in Nursing Research, Office of Nursing Research Colloquium Series, Dr. Terry Richmond, University of Pennsylvania, Philadelphia, PA
2015	A Day in the Life of a Collaborative Biostatistician, MS Biostatistics Lunch and Learn Series, School of Public Health, Drexel University, Philadelphia, PA
2012 to 2016	Writing a Scientific Paper for Peer-Reviewed Publication, Writing for Publication Elective Course, MS Program in Strategic Studies, US Army War College, Carlisle, PA
2012 to 2013	Biostatistics and the Medical Literature, Lecture Series 2012-2013 (three four-hour workshops for faculty and residents), Organized by Dr. Guy Hewlett, Crozer-Chester Medical Center Scholarly Activity Initiative, Philadelphia, PA
2011	Evidence Based Practice, Research Symposium sponsored by the Pennsylvania Hospital Research and Evidence-Based Council, Organized by Dr. Linda Hatfield, University of Pennsylvania, Philadelphia, PA
2011	Writing for Peer-Review, Writing for Publication Elective Course, MS Program in Strategic Studies, US Army War College, Carlisle, PA
2011	Writing a Scientific Paper for Peer-Reviewed Publication, Dr. Rima Himelstein, Residency Program, Crozer Medical Center, Philadelphia, PA
2010	Cox Regression, Proportional Hazards, and Receiver Operating Curves, N840 Advanced Methods, Dr. Lorraine Tulman, University of Pennsylvania, Philadelphia, PA
2009 to 2019	Inference and Power, N754 Quantitative Research, Drs. Deb Bruner and Terri Weaver (2009-2011), Drs. Salimah Meghani and Barbara Riegel (2012), Dr. Martha Curley (2013-2018), Dr. Peggy Compton (2019), University of Pennsylvania, Philadelphia, PA
2009 to 2018	Biostatistics in Dissertation Research, Dissertation Seminar, Drs. Terry Richmond and Kathy Bowles (2009), Drs. Eileen Lake and Kathy Bowles (2010, 2011), Drs. Barbara Riegel and Pat D'Antonio (2012, 2013), Drs. Barbara Medoff-Cooper and Pat D'Antonio (2014, 2015), Dr. Kathy Bowles (2016-2018), University of Pennsylvania, Philadelphia, PA
2009	Inference and Causation, Introduction to Epidemiology, Dr. Jennifer Pinto Martin, University of Pennsylvania, Philadelphia, PA
2009	Hierarchical Linear Modeling (two-part series), N840 Advanced Methods, Dr. Lorraine Tulman, University of Pennsylvania, Philadelphia, PA
2007 to 2009	Power and Sample Size Calculation, Epidemiologic Research Methods II, Dr. Deb Nelson, Temple University, Philadelphia, PA

2007	Analytic Methods: Statistics and Epidemiology, Introduction to Public Health, Adina Stonberg, Temple University, Philadelphia, PA
2006 to 2009	Biostatistics in Research, Current Issues in Public Health, Drs. Stephanie and Larry Ward, Temple University, Philadelphia, PA
2006 to 2008	Sampling in Research, Research Seminar in Health Studies, Dr. Grace Ma, Temple University, Philadelphia, PA
2005 to 2006	Evidence Based Medicine from a Biostatistical Perspective, Conference on Obesity for the Health Professional, directed by Dr. Jay Segal, Temple University, Philadelphia, PA
1996 to 2003	Lecturer of Biostatistics, annual series of six lectures for Residents and Fellows at Fox Chase Cancer Center, Philadelphia, PA

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## PROFESSIONAL SERVICE

2025	Member, DSMB for Eli Lilly, Indianapolis, IN
2025	Member, DSMB for Lindus Health, London, England, UK
2025	Member, ASA Statistical Consulting Section (CSNL) Fellows Committee
2025	Member, ASA Development Committee
2025	Member, Advisory Board for NIH R25 Summer Program in Biostatistics, Duke University
2025	Member, Advisory Board for NIH R25 Summer Program in Biostatistics, Rutgers University
2025	Member, Quantitative Staff Network Advisory Board
2025	Writer, Letter of Nomination for Dr. Kendra Schmid for an ASA fellowship
2025	Member, Helen Walker Society, American Statistical Association
2025	Writer, Nomination Package for Dr. Jennifer Van Mullekom for an ASA fellowship
2025	Co-Lead, Nomination Package for Dr. Shari Messinger for an ASA fellowship
2024	Lead, ASA Membership Needs Survey Initiative
2024	Lead, Quantitative Staff Network Mentorship Survey Initiative
2024	Writer, Letter of Support for Dr. Yue Pan, Promotion to the Rank of Research Associate Professor, University of Miami's Miller School of Medicine
2024	Writer, Letter of Support for Dr. Lutfiyya Muhammad, Promotion to the Rank of Associate Research Professor, Northwestern University Feinberg School of Medicine
2024	Writer, Letter of Support for Dr. Emily Slade, Promotion to the Rank of Associate Research Professor with Tenure, University of Kentucky
2024	Writer, Letter of Support for Kathryn Colborn, Promotion to the Rank of Full Professor with Tenure, University of Colorado School of Medicine

2024	Writer, Letter of Support for Hadiza Galadima, Promotion to the Rank of Associate Professor, Old Dominion University
2024	Scientific Reviewer and Study Section Chair, Patient Centered Outcomes Research Institute (PCORI), Broad Pragmatic Studies Study Section
2024	Member, Application Review Committee for the FDA-OCE-ASA Oncology Educational Fellowship, American Statistical Association
2024	Scientific Reviewer and Study Section Chair, Patient Centered Outcomes Research Institute (PCORI), Telehealth Study Section
2024	Lead, Nomination Package for Dr. Jennifer Van Mullekom for an ASA fellowship
2024	Member, Karl E. Peace Award for Outstanding Statistical Contributions for the Betterment of Society Committee, American Statistical Association
2024	Writer, Letter of Nomination for Dr. Ruixiao Lu for an ASA fellowship
2024	Co-Lead, Nomination Package for Dr. Shari Messinger for an ASA fellowship
2023 to present	Co-Chair, Partnership for Clinical Research and Statistics (PCRS) Special Interest Group, ASA
2023 to 2025	Member, Data Safety Monitoring Board (DSMB) for Exelixis Inc, Alameda, CA
2023	Member, Application Review Committee for the FDA-OCE-ASA Oncology Educational Fellowship, American Statistical Association
2023	Scientific Reviewer and Study Section Chair, Patient Centered Outcomes Research Institute (PCORI), Telehealth Study Section
2023	Writer, Letter of Nomination for Dr. Nicole Carlson for an ASA fellowship
2022 to present	Chair, National Center for Advancing Translational Sciences (NCATS) Justice, Equity, Diversity, and Inclusion (JEDI) Special Interest Group (SIG) Health Equity Working Group
2022 to present	Lead Advisor and Mentor, ASA COCGB Historical Chapter Activity Project <i>Student interns mentored by CBHDS team to build a database and interactive online application</i>
2022 to present	Liaison, Biostatistics, Epidemiology, and Research Design (BERD) JEDI SIG and NCATS JEDI SIG Working Groups
2022 to present	Member, DSMB for ACI Clinical, Bala Cynwyd, PA
2022 to present	Member, DSMB for New York Proton Center, New York City, NY
2022 to 2025	Member, DSMB for BioXcel Therapeutics, New Haven, CT
2022 to 2025	Member, DSMB for Auregen Biotherapeutics, Cambridge, MA
2022 to 2024	Member, DSMB for CNS Pharmaceuticals, Houston, TX
2022 to 2023	Chair, NCATS JEDI SIG Clinical Prediction Modeling Working Group
2022 to 2023	Chair, BERD SIG New Funding Opportunity Announcement (FOA) Working

## Group

2022	Scientific Reviewer, NSF-NIH Smart Health and Biomedical Research in the Era of Artificial Intelligence and Advanced Data Science Program
2022	Writer, Letter of Support for Dr. Heidi Spratt, Promotion to the Rank of Full Professor, University of Texas Medical Branch John Sealy School of Medicine
2021 to present	Member, DSMB for Vedanta Biosciences, Inc., Cambridge, MA
2021 to 2023	Member, DSMB for Galera Therapeutics, Inc., Malvern, PA
2021	Writer, Letter of Support for Dr. Benjamin Leiby, Promotion to the Rank of Full Professor on the Clinical Scholar track in the Sidney Kimmel Medical College at Thomas Jefferson University
2021	Writer, Letter of Support for Dr. Jianghua He, Promotion to the Rank of Full Professor at the University of Kansas School of Medicine
2021	Writer, Letter of Support for Dr. Raymond Balise, Promotion to the Rank of Associate Research Professor in the Department of Public Health Sciences at the University of Miami
2021	Writer, Letter of Nomination for Dr. Mary Sammel for the 2021 ASA's Teaching Statistics in the Health Sciences (TSHS) Section Outstanding Teaching Award
2021	Writer, Letter of Nomination for Dr. Nicole Carlson for an ASA fellowship
2021 to 2023	Council of Chapters Representative, ASA Board of Directors
2020 to 2023	Chair, BERD SIG Collaborative Leader Survey Working Group
2020	Chair, ASA Committee on Nominations
2019 to 2021	Member, DSMB for Blade Therapeutics, Inc., San Francisco, CA
2019	Past Chair, ASA Council of Chapters Governing Board
2018	Chair, ASA Council of Chapters Governing Board
2017	Chair-Elect, ASA Council of Chapters Governing Board
2016 to 2021	Member, DSMB for Heart Failure Clinical Trial, University of Kansas, School of Nursing, Lawrence, KS
2015	Lead, American Statistical Association, Member Initiative Proposal "Assessing Local Student Involvement in the ASA," funded for \$14,000
2014 to 2015	Invited Speaker, Tools for Life, Bryn Athyn College, Bryn Athyn, PA. Tools for Life is a summer camp for incoming high school juniors and seniors, offering workshops on personal growth and networking for life.
2013 to 2015	Vice Chair, American Statistical Association, Council of Chapters Governing Board
2013 to 2015	Judge, Delaware Valley Science Fair, Statistical Methodology
2012 to 2019	Scientific Reviewer, Patient Centered Outcomes Research Institute (PCORI)

	Study Sections, Health Systems, Pragmatic Clinical Trials, Methods
2012 to 2018	Judge, Crozer Chester Resident Research Day, Crozer Health
2012	Mid-tenure reviewer, Rochester Institute of Technology, School of Mathematical Sciences
2012	President, American Statistical Association, Philadelphia Chapter
2011	Vice President, American Statistical Association, Philadelphia Chapter
2011	Member, American Cancer Society Institutional Research Grant Review Committee, Thomas Jefferson University
2011	Scientific Panel Reviewer, National Institutes of Health, Behavioral Medicine: Interventions and Outcomes Study Section
2010 to 2015	Member, National Cancer Institute, Symptom Management and Quality of Life Steering Committee
2006 to 2010	Treasurer, American Statistical Association, Philadelphia Chapter
2003 to 2004	Member, American Brachytherapy Society
2002 to 2005	Member, Drug Information Association
2002 to 2005	Member, American Academy of Periodontology
2002 to 2005	Member, International Association for Dental Research
2000 to 2004	Member, American Society for Therapeutic Radiology and Oncology
2000 to 2002	Member, American Board of Radiology, Written Examination Panel
1996 to present	Scientific Reviewer for the following journals:  JAMA, Journal of Clinical Oncology, International Journal of Radiation Oncology—Biology and Physics, Cancer, Journal of Clinical and Translational Science, Journal of Biopharmaceutical Statistics, Journal of Statistical Theory and Practice, Stat, International Journal of Older People Nursing, Nursing Research, BMC Geriatrics
1992 to 2002	Member, Biometric Society
1991 to present	Member, American Statistical Association
1991 to 2002	Member, Society for Clinical Trials

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## **SERVICE ACTIVITIES**

### **Virginia Tech**

2025	Member, Application Review Committee for VT's Rural Environmental Health T32 Program (under service activities for VT)
2025	Member, Inquiry Committee Member/Subject Matter Expert for Research Misconduct Case
2025	Co-Organizer, Department of Statistics Colloquium Series Speaker, David Williamson

2024	Co-Organizer, Women in Data Science (WiDS) Blacksburg
2023	Speaker, Round-Table Leader, Collaborative Biostatistics, Women in Data Science (WiDS) Blacksburg
2022	Speaker, Career Panel, Collaborative Biostatistics, Women in Data Science (WiDS) Blacksburg
2021	Writer, Letter of Support for Dr. Frederick W. Faltin, Application to the Rank of Full Professor of Practice, Department of Statistics
2021	Internal Reviewer, Promotion Dossiers, Department of Statistics
2021	Member, iTHRIV Scholars R01 Proposal Review Committee, the Integrated Translational Health Research Institute of Virginia (iTHRIV)
2019 to present	Member, Corporate Partners Program Organizing Committee, Department of Statistics

### **Temple University**

2008	Member, Search Committee for Institute for Survey Research Director
2008	Member, Search Committee for Chair, Department of Public Health
2007	Member, Merit Review Committee, College of Health Professions
2006 to 2008	Co-Advisor, Public Health Graduate Student Council
2005 to 2008	Director, Biostatistics Research Support Center
2005 to 2008	Member, MS Epidemiology Curriculum Development Committee
2005 to 2008	Member, PhD Comprehensive Exam Committee
2005 to 2008	Reader, PhD Comprehensive Research Exam

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### **FORMAL TEACHING**

2023, 2024, 2025	STAT 3615 Biological Statistics, Virginia Tech
2022, 2023, 2024	STAT 5024 Communication in Statistical Collaboration, Virginia Tech
2017, 2018	PHPP 508 Biostatistics, University of Hawai'i at Hilo, College of Pharmacy
2015 to 2018	PUBH 501 Biostatistics, University of Pennsylvania, School of Medicine
2014, 2015	PUBH 603 Advanced Research Methods, University of Pennsylvania, School of Medicine
2006 to 2008	PH 8012 Multivariable Biostatistics, Temple University, College of Health Professions
2005 to 2008	PH 5002 Biostatistics, Temple University, College of Health Professions
2005	PH 3101 Epidemiology, Temple University, College of Health Professions

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### **DISSERTATION/THESIS COMMITTEES**

## **Doctoral Committees:**

Member, Shivani Goyal, Virginia Tech, College of Science, Psychology, current student.  
Topic: Targeting Reinforcement Learning Across Repeated Sessions in Depression.

Member, John Akanbi, Virginia Tech, College of Agriculture and Life Sciences, Department of Human Nutrition, Foods, and Exercise, current student.  
Topic: Effects of Pistachio Consumption on Inflammatory Markers and Antioxidants in Recreationally Active Women and Men.

Member, Rishitha Anumola, Virginia Tech Carilion School of Medicine, mentored from 2023-2024, transferred to Department of Statistics.

Member: Jamie Turner, Virginia Tech, Translational Biology, Medicine, and Health, current student  
Topic: The De-Implementation of Long-Term Opioid Use in High-Risk Patients

Member, Zachary Hutelin, Virginia Tech, Translational Biology, Medicine, and Health, current student  
Topic: The Role of Food Processing in Metabolism and Reward

Member, Emma Leslie, Virginia Tech, Translational Biology, Medicine, and Health, current student  
Topic: Ultra-Processed Food Consumption, Gut Microbiota, and Glucose Homeostasis in Mid-Life Adults

Member, Marina Levochkina, Virginia Tech Carilion School of Medicine, mentored from 2022-2024, transferred to Research Scientist Christopher Grubb in 2024.

Member, Amber Kelly, Virginia Tech, Translational Biology, Medicine, and Health, defended Fall 2023.  
Topic: Ultra-Processed Food Reward: Neural and Metabolic Factors

Member, Hassan Farah, Virginia Tech, Translational Biology, Medicine, and Health, defended Summer 2023.  
Topic: Record and Analyze the Underlying Biomechanical Factors that Influence Gross Motor Function for Children with Cerebral Palsy

Member, Quentin Nichols, Virginia Tech, College of Agriculture and Life Sciences, Department of Human Nutrition, Foods, and Exercise, defended Summer 2023.  
Topic: Factors Related to Diabetes Among Asian American, Native Hawaiians, and Pacific Islander Adults in the United States Using the National Health and Nutrition Examination Survey 2011 to 2018.

Member, Tosin Ogunmayowa, Virginia Tech, Virginia-Maryland College of Veterinary Medicine, Department of Population Health Sciences, defended Spring 2023  
Topic: Assessing the Effect of Neighborhood and Individual Social Vulnerability on Physical Activity, Physical Activity-Related Injuries, and Obesity

Member, Daniel Chen, Virginia Tech, Genetics, Bioinformatics, and Computational Biology, defended Fall 2021  
Topic: A Pedagogical Approach to Create and Assess Domain-Specific Data Science Learning Materials in the Biomedical Sciences

Member, Eileen Regan, University of Pennsylvania, School of Nursing, defended Fall 2021  
Topic: Investigating the Association between Predictive Nature of Injury and Misuse of Prescription Opioids in Young Adult Athletes

Member, Katrina Colucci-Chang, Virginia Tech, Biomedical Engineering and Mechanics, defended Fall 2021

Member, Xiang, Li, Virginia Tech, Translational Biology, Medicine, and Health, defended 2021.

Member, Rachele Lipsky, University of Pennsylvania, School of Nursing, defended Spring 2020  
Topic: Predicting Depression and Antidepressant Treatment Outcomes Among Young Adults with a History of Adverse Childhood Experiences

Member, Jackie Bannon, University of Pennsylvania, School of Nursing, defended Spring 2019  
Topic: Neighborhoods, Stress, and CVD Risk among Women with HIV in Chicago

Member, Lauren Starr, University of Pennsylvania, School of Nursing, defended Spring 2019  
Topic: Associations Between Goals-of-Care/End-of-Life Discussions, Acute Care Utilization and Costs, Race/Ethnicity, and Time Among Persons with Serious Illness Near the End-of-Life

Member, Ehriel Fannin, University of Pennsylvania, School of Nursing, deceased  
Topic: The Sexual Economics of Unintended Pregnancy: Examining the Relationships among Resource Security, Sexual Relationship Approach, Sexual Decisions, and Sexual Health Outcomes

Member, Zainab Ambani, University of Pennsylvania, School of Nursing, defended Spring 2017  
Topic: The Practice Environment and Nurse Job Outcomes in Saudi Hospitals

Member, Elizabeth Novack, University of Pennsylvania, School of Nursing, defended Spring 2017  
Topic: Young Adult Female Victims of Intimate Partner Violence, Health, and Health Care Utilization

Member, LaKeetra Josey, University of Pennsylvania, School of Nursing, defended Fall 2016  
Topic: Biological, Psychological, and Social Profiles of Adolescents ages 12-17 with Depression and/or Anxiety Compared to a General Population of Adolescents Identified via Secondary Analysis of the 2011-2012 National Survey of Children's Health

Member, Nadya Golfenshtein, University of Pennsylvania, School of Nursing, defended Fall 2016  
Topic: Investigating Parenting Stress and Neurodevelopment in Infants with Congenital Heart Defects during the First Year of Life

Outside Reader, Sangmi Kim, University of Pennsylvania, School of Nursing, defended Fall 2015  
Topic: The Role of Chronic Stress in Age Gradients of Racial/Ethnic Disparities in Adverse Birth Outcomes

Member, Lit Soo Ng, University of Pennsylvania, School of Nursing, defended Spring 2015  
Topic: Examining the Complex Relationship between Stress and Sleep

Member, Jess Reardon, University of Pennsylvania, School of Nursing, defended Spring 2014  
Topic: Examining Opportunity for Cancer Clinical Trial Participation Among Under-Represented Groups

Member, Lynn Russel, University of Pennsylvania, School of Nursing, deceased  
Topic: Factors Influencing Moral Activism among Nurse Anesthetists

Outside Reader, Meridith McKenzie, University of Pennsylvania, School of Nursing, defended Winter 2013  
Topic: Hospice Care and Quality End of Life Outcomes for Patients with Advanced Heart Failure

Outside Reader, Eeeseung Byun, University of Pennsylvania, School of Nursing, defended Winter 2013  
Topic: Effects of Uncertainty on Perceived and Physiological Stress and Psychological Outcomes in

## Stroke Survivor Caregivers

Member, Sunny Hallowell, University of Pennsylvania, School of Nursing, defended Winter 2012  
Topic: Impact of Nurse Work Environments on Human Milk Provision: A NICU Quality Outcome

Member, Melissa O'Conner, University of Pennsylvania, School of Nursing, defended Spring 2012  
Topic: The Impact of Length of Stay and Number of Home Nursing Visits on Hospitalization

Outside Reader, Shu Li, Temple University, Department of Statistics, defended Winter 2011  
Topic: Determining the Cut-off Based on a Continuous Variable to Define Two Populations

Member, Sarah Sawah, University of Pennsylvania, School of Nursing, defended Winter 2011  
Topic: Is Vitamin D Status Associated with Blood Glucose Control in Children and Adolescents with Type 1 Diabetes after the First Year of Diagnosis

Member, Canhua Xiao, University of Pennsylvania, School of Nursing, defended Spring 2011  
Topic: Identifying Symptom Clusters in Patients with Head and Neck Cancer Post Radiation Therapy

Member, Houry Puzantian, University of Pennsylvania, School of Nursing, defended Spring 2011  
Topic: Differences by Age in Cardiovascular Event-Free Survival in Adults with Moderate Chronic Kidney Disease

Outside Reader, Ashley Darcy, University of Pennsylvania, School of Nursing, defended Fall 2010  
Topic: Exploring the Impact of the Home Environment as a Moderator in School Performance Outcomes of Low-Birth-Weight Survivors

Member, Elaine Hatala, Temple University, Department of Public Health, defended Winter 2008  
Topic: Predicting Patterns of Ecstasy Use Among Undergraduate College Students

Chair, Renee Liberoni, Temple University, Department of Public Health, defended Spring 2008  
Topic: Overweight and Depressive Symptoms among Young, Rural Adolescents

Chair, Freda Patterson, Temple University, Department of Public Health, defended Winter 2007  
Topic: Assessment of the "Teachable Moment" for Smoking Cessation in the Oncology Context

Member, Tracey Greenwood, Temple University, Exercise Physiology, defended Winter 2007  
Topic: Changes in Weight, Waist Circumference, Sagittal Diameter, and DEXA Parameters: High versus Low Carbohydrate Dieting

Member, Debra Eisenberg, Temple University, Department of Public Health, defended Fall 2007  
Topic: The relationship between HRQOL and Obesity within Two Chronically Ill Populations: RA and PsA

Member, Grace Liu, Temple University, Department of Statistics, defended Fall 2005  
Topic: Hybrid Model for the Multivariate Zero-Inflated Count Data

Member, Tamar Klaiman, Temple University, Department of Public Health, defended Fall 2009  
Topic: Political and Socioeconomic Factors that Influence State Written Pandemic Flu Plan Preparedness

## **MS Committees, Temple University:**

Member, Monica D'Arcy, Department of Public Health, defended Spring 2008 (MS Epi)  
Topic: Community Level Violence and Adolescent Behavior: A Philadelphia Perspective, 1991- 2007

Member, Jonathan Vandergrift, Department of Public Health, defended Spring 2008 (MS Epi)  
Topic: Physical and Psychosocial Ergonomic Risk Factors for Low Back Pain in Automobile Manufacturing Workers

Member, Adrienne Loero-Pequignot, Department of Public Health, defended Spring 2008 (MS Epi)  
Topic: The Effects of Obesity on Complications Following the Most Common Gastrointestinal Surgeries

Member, Dana Bauer, Geography and Urban Studies, defended Spring 2008 (MS GUS)  
Topic: The Greening of Philadelphia: Race, Class, and the Urban Environment

Member, Frank Friedenber, Department of Public Health, defended Spring 2007 (MS Epi)  
Topic: Botulinum Toxin A for the Treatment of Delayed Gastric Emptying

### **MPH Committees, Temple University:**

Member, Ishan Chang, Department of Public Health, defended Fall 2008  
Topic: Childhood Lead Poisoning and the Relationship with Maternal Age at Delivery

Member, Venk Kandadai, Department of Public Health, defended Spring 2008  
Topic: Information Technology, Posture and Upper Extremity Musculoskeletal Disorders

Member, Stacey Chazin, Department of Public Health, defended Spring 2008  
Topic: Screening and Prevention Decisions of Individuals at Hereditary Risk for Cancer

Member, Lalitha Parameswaran, Department of Public Health, defended Spring 2007  
Topic: Resident Perception of Barriers, Facilitators, and Educational Initiatives for CRC Screening for African American Patients in an Urban Clinic

Member, Amy Cunningham, Department of Public Health, defended Spring 2007  
Topic: A Quantitative and Qualitative Evaluation of a Behavioral-Based Adherence Program

Member, Sara Eldridge, Department of Public Health, defended Winter 2005  
Topic: Diabetes Education Center at Pennsylvania Hospital

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### **MENTORSHIP/ADVISING**

2023 to present	iTHRIV Scholar Mentor (informal): Shannon Armbruster, MD, Gynecological Oncology Carilion Clinic
2021 to 2025	Principal Investigator, Senior Biostatistics Mentor, and Director of the summer program: The Collaborative Undergraduate Biostatistics Experience (CUBE) Program for Underrepresented Students in STEM, CBHDS, Virginia Tech
2021 to 2023	iTHRIV Scholar Mentor: Shawna Klahn, DVM, DACVIM-Oncology, Associate Professor, Medical Oncology Virginia-Maryland College of Veterinary Medicine, Virginia Tech
2020 to 2022	iTHRIV Scholar Mentor: Brittany Howell, PhD, Assistant Professor, Fralin Biomedical Research Institute, Virginia Tech
2020 to 2022	iTHRIV Scholar Mentor: Alexandra DiFeliceantonio, PhD, Assistant Professor, Fralin Biomedical Research Institute, Virginia Tech

2020 to 2021	Senior Faculty Advisor: Brownbag Biostatistics and R Programming Bi-Weekly Lab Training Series for the Integrated Translational Health Research Institute of Virginia (iTHRIV) Scholar Program, CBHDS Team Effort, Virginia Tech
2019	Senior Faculty Advisor: Vu Q. Nguyen, MD, Carilion Clinic Department of Gastroenterology
2019	Senior Faculty Advisor: Shawn Stafford, MD, MAS, Vice Chair of Research, Department of Surgery, Carilion Clinic Children's Hospital
2019	BECCA Lab Internship Mentor: Lihua Shi, MS Applied Statistics, Department of Mathematics, West Chester University
2018	BECCA Lab Internship Mentor: Danielle Sienko, MS Biostatistics, Drexel University, School of Public Health
2018	Thesis Advisor: Joshua Banks, MS Biostatistics, Drexel University, School of Public Health
2018	Independent Study Advisor in Big Data Analysis: Eileen Regan, PhD Candidate, University of Pennsylvania, School of Nursing
2018	Independent Study Advisor in Advanced Quantitative Methods: Billy Rosa, PhD Candidate, University of Pennsylvania, School of Nursing
2018	Independent Study Advisor in Advanced Quantitative Methods: Amelia Schlak, PhD Candidate, University of Pennsylvania, School of Nursing
2018	Independent Study Advisor in Big Data Analysis: Rachele Lipsky, PhD Candidate, University of Pennsylvania, School of Nursing
2018	Independent Study Advisor in Longitudinal Methods: Elizabeth Broden, PhD Candidate, University of Pennsylvania, School of Nursing
2017 to 2020	BECCA Lab Internship Mentor: Vicky Xu, MS Applied Statistics, West Chester University, Department of Mathematics
2017 to 2019	BECCA Lab Internship Mentor: Alicia Lozano, MS Biostatistics, Drexel University, School of Public Health
2017 to 2018	BECCA Lab Internship Mentor: Danielle Sienko, MS Biostatistics, Drexel University, School of Public Health
2016	Thesis Advisor: Alicia Lozano, MS Biostatistics, Drexel University, School of Public Health
2016	Independent Study Advisor in Advanced Quantitative Methods: Eshita Malik, MPH Student, University of Pennsylvania, School of Arts and Sciences, MS Biotechnology
2016	BECCA Lab Internship Mentor: Carina Gerveshi, MS Biostatistics, Drexel University, School of Public Health
2015 to 2017	BECCA Lab Internship Mentor: Alicia Lozano, MS Biostatistics, Drexel University, School of Public Health
2015 to 2016	BECCA Lab Internship Mentor: Whitney York, MS Biostatistics, Drexel University, School of Public Health

2015 to 2016	BECCA Lab Internship Mentor: Liming Huang, MS Biostatistics, Temple University, Fox School of Business
2015 to 2016	Formal Mentor, Conference on Statistical Practice Mentorship Program: Buffy Lloyd, PhD Candidate, Arizona State University, Biomedical Informatics
2015	Independent Study Advisor in Data Management Techniques in Secondary Datasets: Nadya Golfenshtein, PhD Candidate, University of Pennsylvania, School of Nursing
2015	Independent Study Advisor in HIV Statistical Methods: Elizabeth Novack, PhD Candidate, University of Pennsylvania, School of Nursing
2015	Independent Study Advisor in Multi-Level Methods: Steven Brooks, MPH Student, University of Pennsylvania, School of Medicine
2015	BECCA Lab Internship Mentor: Elizabeth Lakata, MS Biostatistics, Drexel University, School of Public Health
2015	Thesis Advisor: Aleda Leis, MS Biostatistics, Drexel University, School of Public Health
2014 to 2015	BECCA Lab Internship Mentor: Aleda Leis, MS Biostatistics, Drexel University, School of Public Health
2014 to 2015	BECCA Lab Internship Mentor: Elizabeth Mauer, MS Statistics, Temple University, Fox School of Business
2014 to 2015	BECCA Lab Internship Mentor: Rose Lu, MS Statistics, Temple University, Fox School of Business
2014 to 2015	Internship Mentor: Fenfen Wang, MS Applied Statistics, West Chester University, Department of Mathematics
2014	Independent Study Advisor in Longitudinal Methods: Nadya Golfenshtein, PhD Candidate, University of Pennsylvania, School of Nursing
2014	Independent Study Advisor in Survival Methods: Alexis Zebrowski, MPH Student, University of Pennsylvania, School of Medicine
2014	Mentor and Host at University of Pennsylvania: Olushina Olawale Awe, Department of Mathematics, Obafemi Awolowo University, Ile-Ife, Nigeria
2014	Thesis Advisor: Paige Fisher, MS Biostatistics, Drexel University, School of Public Health
2013 to 2014	Collaborative Project Mentor and Host at University of Pennsylvania: Obafemi Awolowo University, Ile-Ife, Nigeria
2013 to 2014	BECCA Lab Internship Mentor: Paige Fisher, MS Biostatistics, Drexel University, School of Public Health