

Business Address

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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

ACADEMIC POSITIONS

- 2019 to present **Director, Center for Biostatistics and Health Data Science**
Co-Director, iTHRIVBERD Methods Core
Professor of Practice
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

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

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

COMPUTER BACKGROUND

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

HONORS AND AWARDS

2021 2021 Judges Choice Award, 2021 Week of the Nurse 11th Annual Art and Science of Nursing Showcase, presentation on Race, Vitamin D Status, and COVID-19 Positivity Using Propensity Score Methods, 06-24-2021. Ian Crandell, Michelle Rockwell, Phyllis Whitehead, Kimberly F. Carter, and Alexandra Hanlon.

2019 Fellow of the American Statistical Association (ASA)

2014 American Statistical Association, Statistical Consulting Section Best Topic Contributed Session

2012 Collaborative Statisticians Advancing Their Academic Careers 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

EDITORIAL POSITIONS

1996 to present Scientific Review Panel for the following journals:
International Journal of Older People Nursing, Journal of Biopharmaceutical Statistics, Cancer, Journal of Clinical Oncology, International Journal of Radiation Oncology, Biology and Physics, BMC Geriatrics

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: Chiu) National Institutes of Health/NIDA 1R01DA051573-01A1, Social influences on choices in adolescent substance use. April 2021 to January 2026. (Code: R01)

Co-Investigator (PI: Chiu) National Institutes of Health/NIMH 1R01MH127773-01, Evaluating overlap and distinctiveness in neurocomputational loss and reward elements of the RDoC matrix. July 2021 to June 2026. (Code: R01)

Co-Investigator (MPI: King-Casas, Chiu) National Institutes of Health/NIDA 1R01DA051573-

01A1, Social influences on choices in adolescent substance use. September 2021 to May 2026. (Code: R01)

Co-Investigator (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. September 2018 to May 2022. (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. February 2017 to March 2022. (Code: R01)

Co-Investigator (PI: Fogel), National Institutes of Health/NHLBI 1R01HL149139-02A1, Acute Imposition of Fontan Physiology in the Single Ventricle Patient: Effects on Fibrosis, Function, and Drug Intervention. July 2020 to June 2024. (Code: R01)

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

Co-Investigator (PI: Horn), East Tennessee State University 1R24DA051973-01 (NIH-NIDA Flow-thru), Studies to Advance Recovery Supports (STARS) in Central Appalachia. July 2020 to April 2025. (Code: R24)

Co-Investigator (PI: Naylor), NewCourtland Center for Transitions and Health, University of Pennsylvania: Population Health Initiative. January 2019 to June 2024.

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

Completed Funded Grants:

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.

Co-Investigator (PI: Fogel), National Institutes of Health/NHLBI R01HL090615, 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 R01NR015226-01A1, 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 R01-CA196131. Retention in Cancer Clinical Trials: Modeling Patient-Participants' Risk-Benefit Assessments. December 2014 to January 2019. (Code R01)

Principal Investigator, 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)

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

Bio-statistician (PI: Heil), National Institutes of Health/NINR R44-NR013609, Technology Application to Enhance Discharge Referral Decision Support. September 2014 to August 2016. (Code O)

Bio-Statistician (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)

Bio-Statistician (Co- PI: Villarruel), National Institutes of Health /NINR R01NR013505, Testing a Latino Web-based Parent-Adolescent Sexual Communication Intervention. September 2012 to June 2016. (Code: R01)

Bio-statistician (PI: Kim), National Institutes of Health/NINR R00-NR013177-03, An Objective Snoring Index and Its Association with Carotid Atherosclerosis. September 2013 to June 2016. (Code O)

Statistician (PI: Buttenheim), National Institutes of Health /NICHD, 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. (CHOP direct cost), July 2011 to March 2016. (Code R01)

Bio-statistician (PI: Brawner), CDC/NCHHSTP/U01PS003304, PS11-003 Minority AIDS Research Initiative. January 2012 to December 2015. (Code O)

Co-investigator (PI: Thompson), National Institutes of Health/NCI 2P30CA016520-35, Abramson Cancer Center Support Grant – Biostatistics Core. December 2010 to November 2015. (Code PP)

Co-investigator (PI: Rhodes), National Institutes of Health/NIAAA R01AA018705-02, 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 5R01ES018858-04, Lead exposure, externalizing behavior, and neurobiological mediating factors. September 2011 to April 2015. (Code R01)

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

Bio-statistician (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, Mild Cognitive Impairment and Obstructive Sleep Apnea. April 2011 to March 2014. (Code R01)

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

Statistician (PI: Hirshman), National Institutes of Health, Palliative needs of cognitively impaired patients during health care transactions. August 2011 to June 2013. (Code: R03)

Statistician (PI: Kim), National Institutes of Health /NINR K99-NR013177-02, 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 R01-HL-080076-04, Inflammatory response to sleep apnea in obese subjects. May 2006 to April 2013. (Code R01)

Co-investigator (PI: Medoff-Cooper), CHOP, 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 R01AG025524-05, Health Related Quality of Life: Elders in long-term care. September 2006 to May 2012. (Code R01)

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

Co-investigator (PI: M. Brown), National Institutes of Health/NHLBI R01HL085497, Genetics of In Vivo and In Vitro Endothelial Function in African Americans. April 2007 to March 2012*. (Code R01) *Consultant post January 2009.

Co-investigator (PI: D. Nelson), National Institutes of Health/DHHS 5 R01 HD038856-07, BV-associated Bacteria and Adverse Pregnancy Outcomes among Urban Women. April 2008 to March 2012*. (Code R01) *Consultant post January 2009.

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: A. Hausman), National Institutes of Health/Center for Disease Control U49CE001093-01, Violence Prevention Center Research. September 2006 to August 2011*. (Code O) *Consultant post January 2009.

Co-investigator (PI: Bruner), National Institutes of Health/NCI R21CA140766-02, 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 FG)

Co-investigator (PI: Medoff-Cooper), Cardiac Center Pilot Funds, The 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 1RC1NR011591-01, A Novel Approach to Elucidate Mechanisms for Disparity in Cancer Pain Outcomes. January 2010 to July 2011. (Code FG)

Co-investigator (PI: Rhodes), National Institutes of Health/NCMHD RC1MD004415-02, Community Health Center Intervention to Prevent Family Violence. September 2009 to July 2011. (Code FG)

- Statistician (PI: Riegel), National Institutes of Health/NHLBI R01-HL084394-03, Impact of sleepiness on heart failure self-care. April 2007 to March 2011. (Code R01)
- Statistician (PI: Sawyer), National Institutes of Health K99NR011173-01, Risk Assessment and Tailored Intervention to Improve CPAP Adherence. April 2009 to March 2011. (Code TG)
- 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: N. Martin), National Institutes of Health/DHHS 2 R01 DC001924-12A2, Lexical Retrieval, Verbal Short Term Memory and Learning. May 2005 to November 2010*. (Code R01) *Consultant post January 2009.
- Co-investigator (PI: Watkins-Bruner), National Institutes of Health/NCI R01 R01 CA114321-03, Ethnic Differences in Media Response & Recruitment. September 2006 to August 2010. (Code R01)
- Co-investigator (PI: Medoff-Cooper), Cardiac Center Pilot Funds, The Children's Hospital of Philadelphia. September 2010 to August 2010. (Code O)
- Co-investigator (PI: A. Bove), AHRQ/DHHS 1R18HS017202-01, Using a Telemedicine System to Promote Patient Care Among Underserved Individuals. September 2007 to August 2010*. (Code FG) *Consultant post January 2009.
- Co-investigator (PI: Neiman), Pennsylvania Department of Health, Commonwealth Universal Research Enhancement (C.U.R.E.) Program – Project 2: Identifying Interventions for Cancer Patients at High Risk for Poor Outcomes. January 2010 to June 2010. (Code O)
- Co-investigator (PI: G. Boden), Pennsylvania Department of Health MSA Funds, Community & Internet-Based Treatment for Obese Adults with CVD Risk. June 2006 to May 2010*. (Code R01) *Consultant post January 2009.
- Co-investigator (PI: Naylor), National Institutes of Health 5R01AG025524-04, June 2009 to May 2010. (Code R01)
- Statistician (PI: Bowles), National Institutes of Health/NINR R01 NR-008923-04, Promoting Self-Care with Telehomecare: Impact on Outcomes. January 2010 to May 2010. (Code R01)
- Co-investigator (PI: J. Masalko), National Institute of Mental Health RO3MH080820, Cohort Study of Lifecourse Patterns of Religious Service Attendance and Risk of Psychopathology. August 2008 to April 2010*. (Code PP) *Consultant post January 2009.
- Statistician (PI: Neiman), Pennsylvania Department of Health, Commonwealth Universal Research Enhancement (C.U.R.E.) Program – Project 1: Factors Associated with Attrition in Radiation Therapy Oncology Trials: A 20 Year Review. January 2010 to January 2010. (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 R01 NR/HL02093, Feeding Behaviors and Energy Cost in Infants with CHD. September 2002 to May 2009. (Code R01)

Co-investigator (PI: S. Belenko), National Institutes of Health/DHHS 7 R01 DA020346-03, The Risk of Sexually Transmitted Disease Among Adolescents Involved in the Juvenile Justice System. August 2006 to July 2008. (Code R01)

Co-investigator (PI: S. Lepore), National Institutes of Health/National Cancer Institute 7 R01 CA104223-04, Prostate Cancer Education in African-American Men. September 2004 to June 2008. (Code R01)

Co-investigator (PI: B. 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: J. Gold), National Institutes of Health/National Institute for Occupational Safety and Health K01 OH008134-01A1, Skin Temperature in the Hands of Office Worker. September 2005 to August 2006. (Code TG)

Co-investigator (PI: R. Young), National Institutes of Health P30 CA06927, Comprehensive Cancer Center Program. Core Grant funds, August 2000 to June 2005. (Code PP)

Co-investigator (PI: A. Pollack), National Institutes of Health/DHHS R01 CA101984, Radiation, Hormones & Antisense Prostate Cancer Therapy. September 2003 to June 2005. (Code R01)

Co-Investigator (PI: D. 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: D. 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 PG)

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

Co-Investigator (PI: D. Bruner), Oncology Nursing Foundation/Amgen Inc, Research Grant, FCCC IRB#97-827. Determination of Preferences and Utilities for the Treatment of Prostate Cancer. May 1998 to May 2000. (Code O)

Co-investigator (PI: G. Hanks), National Cancer Institute Research Grant CA65435, Patterns of Care Study in Radiation Oncology. October 1994 to October 1997. (Code PP)

Co-investigator (PI: G. Hanks), National Cancer Institute Contract N01CM87275, Continuation Funds Agency for Health Care Policy and Research. Patterns of Care Study in Radiation Oncology. October 1988 to October 1994. (Code PP)

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

Co-investigator (PI: K. 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 ¹⁹²Iridium High-Dose Rate Brachytherapy Boosts for Unfavorable Prostate Cancer with a Prostate Tumor Oxygenation Analysis. March 1998 to July 2005.

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

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

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

Co-investigator (PI: B. 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 (PI: L. Coia and R. Lanciano), FCCC 93-040, A Phase I Study of Hyperfractionated Pre-Op Chemo-Radiation for Locally Advanced Rectal. June 1993 to May 1996.

PUBLICATIONS

Invited Articles:

Hanlon, A. "The Collaborating Statistician: Publishing in a Peer Review Journal." Stattrak.amstat.org. American Statistical Association. March 1, 2016.
<http://stattrak.amstat.org/2016/03/01/hanloncollab16/>

Peer Reviewed Journal Articles:

Cripe, B. A., Orfield, N. J., Apel, P. J., Lozano, A. J., **Hanlon, A. L.**, & Capito, A. E. Predictors of Mortality and Revision Following Digital Amputation. *Journal of Hand Surgery, (revisions submitted)*.

VonHoltz, L. A. H., Frasso, R., Golinkoff, J. M., Lozano, A. J., **Hanlon, A.**, & Dowshen, N. Internet and Social Media Access Among Youth Experiencing Homelessness: Mixed-Methods Study (Preprint). *JMIR Publications Inc.* <https://doi.org/10.2196/preprints.9306>

Qian, S. S., Crandell, I., **Hanlon, A.**, Joseph, M., & Poelzing, S. (2022). Predictive Capability of Metabolic Panels for Postoperative Atrial Fibrillation in Cardiac Surgery Patients. *Journal of Surgical Research, 278*, 271–281. <https://doi.org/10.1016/j.jss.2022.04.061>

Levoy, K., Rivera, E., McHugh, M., **Hanlon, A.**, Hirschman, K. B., & Naylor, M. D. (2022). Caregiver Engagement Enhances Outcomes Among Randomized Control Trials of Transitional Care Interventions. *Medical Care, 60*(7), 519–529. <https://doi.org/10.1097/mlr.0000000000001728>

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>

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>

Naylor, M. D., Hirschman, K. B., McCauley, K., Shaid, E. C., **Hanlon, A. L.**, Whitehouse, C. R., Ghosh, A., Brown, R., Sullivan, B., & Pauly, M. V. (2021). MIRROR-TCM: Multisite Replication of a Randomized Controlled Trial—Transitional Care Model. *Contemporary Clinical Trials, 112*, 106620. <https://doi.org/10.1016/j.cct.2021.106620>

Cui, N., Raine, A., Connolly, C. A., Richmond, T. S., **Hanlon, A. L.**, McDonald, C. C., & Liu, J. (2021). P300 Event-Related Potentials Mediate the Relationship Between Child Physical Abuse and Externalizing Behavior. *Frontiers in Psychology*, *12*, 720094.

<https://doi.org/10.3389/fpsyg.2021.720094>

Crandell, I., Rockwell, M., Whitehead, P., Carter, K. F., & **Hanlon, A.** (2021). Examination of the Moderating Effect of Race on the Relationship between Vitamin D Status and COVID-19 Test Positivity Using Propensity Score Methods. *Journal of the American Nutrition Association*, 1–12.

<https://doi.org/10.1080/07315724.2021.1948932>

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>

Ratnasekera, A. M., Seng, S. S., Jacovides, C. L., Kolb, R., **Hanlon, A.**, Stawicki, S. P., Martin, N. D., & Kaufman, E. J. (2021). Rising incidence of interpersonal violence in Pennsylvania during COVID-19 stay-at-home order. *Surgery*, *171*(2), 533–540.

<https://doi.org/10.1016/j.surg.2021.06.024>

Liu, J., Wu, L., Um, P., Wang, J., Kral, T. V. E., **Hanlon, A.**, & Shi, Z. (2021). Breakfast Consumption Habits at Age 6 and Cognitive Ability at Age 12: A Longitudinal Cohort Study. *Nutrients*, *13*(6), 2080. <https://doi.org/10.3390/nu13062080>

Golfenshtein, N., **Hanlon, A. L.**, Deatrick, J. A., & Medoff-Cooper, B. (2021). Maternal parenting stress changes over the first year of life in infants with complex cardiac defects and in healthy infants. *Cardiology in the Young*, *32*(3), 383–389. <https://doi.org/10.1017/s104795112100216x>

Merritt, W., Bouchard, D. R., Ford, C., Lozano, A., Xu, Y., **Hanlon, A.**, Petrelli, N., & Tiesi, G. (2021). The disclosure slide—Informative or obligatory, 5 years of SSO Cancer Symposium oral presentations. *Journal of Surgical Oncology*, *123*(8), 1669–1676. <https://doi.org/10.1002/iso.26456>

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>

King, D. R., Entz, M., Blair, G. A., Crandell, I., **Hanlon, A. L.**, Lin, J., Hoeker, G. S., & Poelzing, S. (2021). The conduction velocity-potassium relationship in the heart is modulated by sodium and calcium. *Pflügers Archiv - European Journal of Physiology*, *473*(3), 557–571.

<https://doi.org/10.1007/s00424-021-02537-y>

Brawner, B. M., Jemmott, L. S., **Hanlon, A. L.**, Lozano, A. J., Abboud, S., Ahmed, C., & Wingood, G. (2021). Results from Project GOLD: A pilot randomized controlled trial of a psychoeducational HIV/STI prevention intervention for black youth. *AIDS Care*, *33*(6), 1–19.

<https://doi.org/10.1080/09540121.2021.1874273>

Lee, A., Lowenfeld, A., Palmbach, J., Pantle, N., Durgin, S., Lozano, A., **Hanlon, A.**, & Ratnasekera, A. (2021). VTE Prophylaxis Agents in Isolated Traumatic Brain Injury Patients: Answering The Dilemma of Which Agent Should Be Used. *SSRN Electronic Journal*.

<https://doi.org/10.2139/ssrn.3882654>

McKee, K. L., Crandell, I. C., & **Hanlon, A. L.** (2020). County-Level Social Distancing and Policy Impact in the United States: A Dynamical Systems Model. *JMIR Public Health and Surveillance*, *6*(4), e23902. <https://doi.org/10.2196/23902>

- McCarthy, E., Gough, B. L., Johns, M. S., **Hanlon, A.**, Vaid, S., & Petrelli, N. (2020). A Comparison of Colectomy Outcomes Utilizing Open, Laparoscopic, and Robotic Techniques. *The American Surgeon*, 87(8), 1275–1279. <https://doi.org/10.1177/0003134820973384>
- McGrath, J. M., Bromiker, R., **Hanlon, A.**, McGlothen-Bell, K., & Medoff-Cooper, B. (2020). Correlates and Trajectories of Preterm Infant Sucking Patterns and Sucking Organization at Term Age. *Advances in Neonatal Care*, 21(2), 152–159. <https://doi.org/10.1097/anc.0000000000000810>
- Richards, K. C., Allen, R. P., Morrison, J., Fry, L., Kovach, C. R., Rangel, A., Loera, A., Wang, Y., **Hanlon, A. L.**, Lozano, A. J., & Bliwise, D. L. (2020). Nighttime Agitation in Persons with Dementia as a Manifestation of Restless Legs Syndrome. *Journal of the American Medical Directors Association*, 22(7), 1410–1414. <https://doi.org/10.1016/j.jamda.2020.11.026>
- Chou, J., Pellegrin, K., Cooke, C. E., Zarowitz, B., **Hanlon, A.**, Lozano, A., & Brandt, N. J. (2020). Understanding the Socioeconomic and Geographical Characteristics of Beneficiaries Receiving a Comprehensive Medication Review. *Journal of Managed Care & Specialty Pharmacy*, 26(10), 1276–1281. <https://doi.org/10.18553/jmcp.2020.26.10.1276>
- 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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Chapters In Books:

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.

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Abstracts:

A full list of abstracts can be found at:

https://biostat.centers.vt.edu/people12/alexandra_hanlon.html

PRESENTATIONS

“Careers in Biostatistics and Health Data Science”, Invited Panelist at the 2022 Women in Data Science Blacksburg, WiDS, April 2022

“Taking the “I” out of Collaborative Biostatistics”, Invited Speaker to present at the 2022 Sesquicentennial Hokietalk: Celebrating a 100 Years of Women at Virginia Tech, March 2022

“It's Never Too Early to Develop Leadership Skills”, Invited Panelist at the 2021 Women in Statistics and Data Science Conference, American Statistical Association, October 2021

“Adapting to the Changing Landscape of Academic Statistical Collaboration”, Invited Panelist at the 2021 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”, Presentation for the Virginia Tech Applied Research Corporation (VT-ARC) Technology Group, September, 2021

“Team Science at the Center for Biostatistics and Health Data Science”, Invited Splash Talk presentation at the 2021 Science of Team Science Conference, Virginia Tech, June 2021

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

“COVID-19 Vaccines – Clinical Trial Considerations”, Invited Lecturer for The Design of Experiments Educational Specialization, Coursera, Arizona State University, April 2021

“Predictive Analytics Meets Pandemic” Invited Panelist for Virginia Tech Alumni Association Webinar Broadcast, June, 2020

“The Juggling Collaborative Statistician: Which Balls to Drop.” Invited Speaker at the *American Statistical Association's Annual Joint Statistical Meetings*, Denver, CO, August 2019.

“Biostatistics and Data Science in Drug Discovery Partnerships.” Invited Speaker at the *The*

Virginia Drug Discovery Consortium's VirginiaDrugDiscoveryRx: 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." Invited Speaker at the *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_{2.5}) 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 64th 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*

"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*, 84th 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*, 43rd Annual Meeting, San Francisco, CA, November 2001.

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

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

"Random Effects models for modeling PSA levels following radiation therapy" (with Dirk Moore).

"Patterns and Fate of PSA Bouncing Following 3DCRT." *American Society for Therapeutic Radiology and Oncology*, 42nd 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, 85th 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*, 41st 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*, 40th 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*, 39th Annual Meeting, Orlando, FL, October 1997.

"Results of an Outcome Prediction Model for Prostate Cancer Based on Proportional Hazards Modeling." *American Radium Society*, 79th 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*, 38th 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*, 37th Annual Meeting, Miami, FL, October 1995.

RESEARCH/EDUCATIONAL CONSULTATION

2022 to present	Biostatistics Consultant, Moleculin Biotech, Houston, TX
2019 to present	Biostatistics Consultant, Blade Therapeutics, Inc., South San Francisco, CA
2018 to present	Biostatistics Consultant, New York Proton Center, New York, NY
2015 to present	Biostatistics Consultant, College of Pharmacy, University of Hawaii, Hilo, HI
2014 to present	Biostatistics Consultant, Weight Watchers, New York, NY
2012 to present	Biostatistics Consultant, Crozer-Chester Medical Center, Crozer, PA
2012 to present	Biostatistics Consultant, Philadelphia CyberKnife, Havertown, PA

2004 to present Biostatistics Consultant, Helen F. Graham Cancer Center, Christiana, DE

2020-2021 Biostatistics Consulting for Neonur, NA

2020 to 2021 Biostatistics Consultant, Fair Health, New York, NY

2019 to 2021 Biostatistics Consultant, Turn-Key Health Division, Philadelphia, PA

2020 Biostatistics Consultant, Hope Pharmaceuticals, Scottsdale, AZ

2019 to 2020 Biostatistics Consultant, Department of Radiation Oncology, University of Pennsylvania School of Medicine, Philadelphia, PA

2014 to 2018 Biostatistics Consultant, College of Health Sciences, University of Delaware, Newark, DE

2010 to 2018 Biostatistics Consultant, Department of Radiation Oncology, University of Maryland School of Medicine, Baltimore, MD

2018 Biostatistics Consultant, University of Pittsburgh Medical Center, Pittsburgh, PA

2016 to 2017 Visiting Scholar, Bryn Athyn College, Bryn Athyn, PA

2005 to 2017 Evaluator, Youth Development Programs, Crozer School District, Crozer, PA

2014 Biostatistics Consultant, Department of Radiation Oncology, University of California, San Francisco

2012 to 2014 Biostatistics Consultant, Department of Public Health, Temple University, Philadelphia, PA

2013 Biostatistics Consultant, Department of Radiation Oncology, Stanford University, Palo Alto, CA

2011 Biostatistics Consultant, Rockburn Institute, Elkridge, 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

2004 to 2009 Biostatistics Consultant, Fox Chase Cancer Center, Philadelphia, PA

1990 to 1991 Biostatistics Consultant, UC Irvine Medical School, Irvine, CA

MEETING/CONFERENCE ORGANIZING ROLES

2020 Session Chair, Joint Statistical Meetings, *“Everyone Counts: Data for the Public Good”*, Virtual Conference

2019 Program Chair, Joint Statistical Meetings, *“Artificial Intelligence,”* Council of Chapters Invited Session at Large, Denver Colorado

- 2019 Organizer, Virtual Workshop on Mentorship in Chapters, Council of Chapters Governing Board Member (COCGB) Initiative, Alexandria, Virginia
- 2018 Organizer, Joint Statistical Meetings, COCGB Business Meetings, Vancouver, Canada
- 2018 Organizer, Face-to-Face COCGB Business Meeting, Alexandria, Virginia
2017 Organizer, Joint Statistical Meetings, COCGB Officer Appreciation Workshop "A First Glance at What We are Doing with the Stimulus Funds Initiative," Baltimore, Maryland
- 2014 Co-organizer, Joint Statistical Meetings, Topic Contributed Session "Collaborative Statisticians Advancing Their Careers in an Academic Setting," Boston, Massachusetts. {Awarded Best Topic Contributed Session}
- 2014 Session Chair, Conference on Statistical Practice, Organizational Impact, Tampa, Florida
- 2012 Co-organizer, ASAP 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
- 2012 Co-organizer, ASAP Spring Short Course, "*Applied Survival Analysis*," Dr. Susanne May, Professor, Department of Statistics, University of Washington
- 2012 Co-organizer, ASAP 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
- 2011 Co-organizer, ASAP 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
- 2011 Co-organizer, ASAP Summer Meeting, "New Directions and Development Paths for Statisticians in Pharmaceutical R&D" Dennis Cosmatos, Parexel International
- 2011 Co-organizer, ASAP Spring Short Course, "Applied Mixed Models," Dr. Linda Young, Professor, Department of Statistics, University of Florida
- 2011 Co-organizer, ASAP Mid-Winter Gathering, "*A New Portrait of America: A Look at an Aging Multicultural America*" Whittona Burrell, US Census Bureau, Philadelphia Regional Office
- 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
- 2010 Co-organizer, ASAP Summer Course, "*The Use of R through Excel*," Dr. Richard Heiberger, Temple University

- 2010 Co-organizer, ASAP 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
- 2010 Co-organizer, ASAP Mid-Winter Gathering, "*Live! From the American Statistical Association!*" Dr. Ron Wasserstein, Executive Director of ASA
- 2009 Co-organizer, ASAP Summer Meeting, "*Bayesian Analysis of Continuous and Categorical Data from Multicenter Trials*," Dr. Larry Gould, Merck Research Labs
- 2009 Co-organizer, ASAP Spring Short Course, "*Survival Analysis with Correlated or Repeated Endpoints*," Dr. Terry M. Therneau, Division of Biostatistics and Informatics, Mayo Clinic
- 2009 Co-organizer, ASAP Mid-Winter Gathering, "*Measures of Volatility in Economic Markets*" Dr. Bob Stine, Wharton School at the University of Pennsylvania
- 2008 Co-organizer, ASAP Summer Short Course, Adaptive Designs for Dose Finding
- 2008 Co-organizer, ASAP Spring Meeting, "*Developing the Biostatistics Program at Penn: Challenges of the Past & Visions for the Future*," Dr. J. Richard Landis, University of Pennsylvania
- 2008 Organizer, ASAP Mid-Winter Gathering, "*Communicating and Developing Professionals*," Dr. Tony Lachenbruch, Oregon State University
- 2007 Co-organizer, ASAP Spring Meeting, PK/PD Analysis and 3-Mile Island Mortality, Drs. Simon Zhou, Wyeth, Alan Hartford, Merck, Winston Richards, Penn State
- 2007 Co-organizer, ASAP Mid-Winter Gathering, "*The Use of Statistics in the Courtroom*," Dr. Will Fairley, Analysis and Inference, Inc. and Mary Gray, American University
- 2006 Co-organizer, ASAP Fall Meeting, Symposium on Adaptive Designs
- 2001 Statistics Chair, American Society for Therapeutic Radiology and Oncology 43rd Annual Meeting QOL and Economic Endpoints Committee

EDUCATIONAL LECTURES BY INVITATION

- 2021 **Arizona State University**
COVID-19 Vaccines – Clinical Trial Considerations, Design of Experiments Educational Specialization, Coursera
- 2020 **Virginia Tech and iTHRIV**
Biostatistics 101: Analysis Planning, the Statistical Applications and Innovations Group (SAIG) and the Integrated Translational Health Research Institute of Virginia (iTHRIV)

- 2019 **Carilion Clinic**
Statistics 101: Analysis Planning, Carilion Clinic Office of Continuing Professional Development and the Office of Research and Development
- 2019 **Virginia Tech**
Biostatistics Collaboration and Consultation in the Health Sciences, STAT 5024 Communication and Statistical Collaboration, Dr. Jennifer Van Mullekom
- 2019 **Old Dominion University**
ODU 2019 Math Awareness Conference
Data Analytics in Nursing: A Case Study
- 2018 **Crozer Chester MedicalCenter**
Effective Clinical Collaboration
- 2017 to 2018 **University of Pennsylvania**
Contemporary Methods and Data Science: Case Studies in Nursing Research, Office of Nursing Research Colloquium Series, Dr. Terry Richmond
- 2010 *Cox Regression, Proportional Hazards, and Receiver Operating Curves*, N840 Advanced Methods, Dr. Lorraine Tulman
- 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)
- 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)
- 2009 *Inference and Causation*, Introduction to Epidemiology, Dr. Jennifer Pinto Martin
- 2009 *Hierarchical Linear Modeling (two part series)*, N840 Advanced Methods, Dr. Lorraine Tulman
- 2007 to 2009 **Temple University**
Power and Sample Size Calculation, Epidemiologic Research Methods II, Dr. Deb Nelson
- 2007 *Analytic Methods: Statistics and Epidemiology*, Introduction to Public Health, Adina Stonberg.
- 2006 to 2009 *Biostatistics in Research*, Current Issues in Public Health, Drs. Stephanie and Larry Ward
- 2006 to 2008 *Sampling in Research*, Research Seminar in Health Studies, Dr. Grace Ma.
- 2005 to 2006 *Evidence Based Medicine from a Biostatistical Perspective*, Conference on Obesity for the Health Professional, directed by Dr. Jay Segal.

Other

- 2015 *A Day in the Life of a Collaborative Biostatistician*, Drexel University, School of Public Health, MS Biostatistics Lunch and Learn Series, March 2015.
- 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
- 2012 to 2013 *Biostatistics and the Medical Literature*, Crozer-Chester Medical Center Scholarly Activity Initiative, Lecture Series 2012-2013 (three four-hour workshops for faculty and residents), Organized by Dr. Guy Hewlett
- 2011 *Evidence Based Practice*, Research Symposium sponsored by the Pennsylvania Hospital Research and Evidence-Based Council, Organized by Dr. Linda Hatfield
- 2011 *Writing for Peer-Review*, Writing for Publication Elective Course, MS Program in Strategic Studies, US Army War College
- 2011 *Writing a Scientific Paper for Peer-Reviewed Publication*, Crozer Medical Center, Residency Program, Dr. RimaHimmelstein
- 1996 to 2003 Lecturer of Biostatistics, annual series of six lectures for Residents and Fellows at Fox Chase Cancer Center, Philadelphia

PROFESSIONAL SERVICE

- 2022 to present Data Safety Monitoring Board (DSMB) for BioXcel Therapeutics, New Haven, CT
- 2022 to present Data Safety Monitoring Board (DSMB) for ACI Clinical, Bala Cynwyd, PA
- 2022 to present Data Safety Monitoring Board (DSMB) for CNS Pharmaceuticals, Houston, TX
- 2021 to present Data Safety Monitoring Board (DSMB) for Galera Therapeutics, Inc., Malvern, PA
- 2021 to present Data Safety Monitoring Board (DSMB) for Vedanta Biosciences, Inc., Cambridge, MA
- 2016 to 2021 Data Safety Monitoring Board (DSMB) for Heart Failure Clinical Trial, University of Kansas, School of Nursing, Lawrence, United States
- 2019 to 2021 Data Safety Monitoring Board (DSMB) for Blade Therapeutics, Inc., 442 Littlefield Avenue, San Francisco, California, 94080
- 2021 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 Letter of Support for Dr. Jianghua He, promotion to the rank of Professor at the University of Kansas School of Medicine
- 2021 Letter of Support for Dr. Raymond Balise, promotion to the rank of

2021	Letter of Nomination for Dr. Mary Sammel for the 2021 TSHS Outstanding Teaching Award
2021	Letter of Nomination for Dr. Nicole Carlson for her American Statistical Association (ASA) fellowship
2021	American Statistical Association, Council of Chapters Representative, Board of Directors
2020	American Statistical Association, Chair, Committee on Nominations
2019	American Statistical Association, Past Chair, Council of Chapters Governing Board
2018	American Statistical Association, Chair, Council of Chapters Governing Board
2017	American Statistical Association, Chair Elect, Council of Chapters Governing Board
2015	American Statistical Association, Recipient of Member Initiative Proposal funding for "Assessing Local Student Involvement in the ASA," \$14,000
2014 to 2015	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. Invited Speaker.
2013 to 2015	American Statistical Association, Vice Chair, District 3, Council of Chapters Governing Board
2013 to 2015	Delaware Valley Science Fair, Judge, Statistical Methodology
2012 to 2019	Patient Centered Outcomes Research Institute (PCORI) Study Section, Scientific Reviewer
2012 to 2018	Crozer Resident Research Day, Judge
2012	Rochester Institute of Technology, Mid-tenure reviewer for Assistant Professor, School of Mathematical Sciences
2012	American Statistical Association, President, Philadelphia Chapter
2011	American Statistical Association, Philadelphia Chapter Vice President
2011	American Cancer Society Institutional Research Grant Review Committee, Thomas Jefferson University, Member
2011	National Institutes of Health, Behavioral Medicine: Interventions and Outcomes Study Section, Grant Reviewer
2010 to 2015	National Cancer Institute, Symptom Management and Quality of Life Steering Committee, Member
2006 to 2010	American Statistical Association, Philadelphia Chapter Treasurer
2003 to 2004	American Brachytherapy Society, Member

2002 to 2005 Drug Information Association, Member

2002 to 2005 American Academy of Periodontology, Member

2002 to 2005 International Association for Dental Research, Member

2000 to 2004 American Society for Therapeutic Radiology and Oncology, Member

2000 to 2002 American Board of Radiology, Written Examination Panel

1992 to 2002 Biometric Society, Member

1991 to present American Statistical Association, Member

1991 to 2002 Society for Clinical Trials, Member

SERVICE ACTIVITIES, Virginia Tech

2021 Letter of Support for Dr. Frederick W. Faltin, application to the rank of Full Professor of Practice in the Department of Statistics at Virginia Tech

2021 Member, 2021 Corporate Partners Program Organizing Committee, 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

SERVICE ACTIVITIES, University of Pennsylvania

2018 Chair, Research Committee, School of Nursing (SON), Office of Nursing Research (ONR) and Faculty Senate

2017 to 2018 Member, T32 Executive Committee, SON, New Courtland Center for Transitions

2017 Member, Research Committee, SON ONR and Faculty Senate

2013 Member, Family and Community Health Awards Taskforce

2012 External Reviewer, dossier of Research Associate Professor candidate, Internet Technology

2011 to 2012 Organizer and Member, REDCap Users Group

2011 Chair, Taskforce for Developing Business Model for SON Biostatistics Support

2010 to 2011 Member, Taskforce for Developing Data Systems for SON

2010 Moderator/Chairperson, Cities and Women's Health Conference, Session: *New Data-Based Interventions for Old Problems*

2009 to 2018 Founder and Faculty Director, BECCA Lab, SON ONR

2009 to 2018 Committee member, Graduate Group

2009 to 2010 Lecturer on Biostatistics and Data Management, ONR Colloquium Series

2009 Member, Taskforce for Research Faculty Promotion Guidelines

2009 Mock Reviewer, NIH Director's New Innovator Award candidate

SERVICE ACTIVITIES, Temple University

2008 Member of Search Committee for ISR Director

2008 Member of Search Committee for Chair, Department of Public Health

2007
2006 to 2008 Member of Merit Review Committee, College of Health Professions
Co-Advisor for Public Health Graduate Student Council

2005 to 2008 Director of the Biostatistics Research Support Center
2005 to 2008 Member of MS Epidemiology curriculum development committee

2005 to 2008 Member of PhD Comprehensive Exam committee

2005 to 2008 Reader for PhD Comprehensive Research Exam

DISSERTATION/THESIS COMMITTEES

Doctoral Committees:

Member, Quentin Nichols, Virginia Polytechnic Institute and State University, College of Agriculture and Life Sciences, Department of Human Nutrition, Foods, and Exercise
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 Polytechnic Institute and State University, Virginia-Maryland College of Veterinary Medicine, Department of Population Health Sciences
Topic: Assessing the Effect of Neighborhood and Individual Social Vulnerability on Physical Activity, Physical Activity-Related Injuries, and Obesity

Member, Amber Kelly, Virginia Polytechnic Institute and State University, Translational Biology, Medicine, and Health, current student
Topic: Ultra-processed food reward: neural and metabolic factors

Member, Katrina Colucci-Chang, Virginia Polytechnic Institute and State University, current student
Topic: Exploring the Relationship Between Sodium, Potassium, and Calcium Ions with Cardiac Excitability

Member, Hassan Farah, Virginia Polytechnic Institute and State University, Translational Biology, Medicine, and Health, current student
Topic: Record & analyze the underlying biomechanical factors that influence gross motor function for children with Cerebral Palsy

Member, Dan Chen, Virginia Polytechnic Institute and State University, defended Fall 2021
Topic: A Pedagogical Approach to Create and Assess Domain-Specific Data Science Learning Materials in the Biomedical Sciences

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

Member, Lauren Star, 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, 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, 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, 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, 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, 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 IPV, Health, and Health Care Utilization

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, 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

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. Lynn sadly passed away in 2014
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, Temple 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, Elaine Hatala, Temple University, Department of Public Health, defended Winter 2008
Topic: Predicting Patterns of Ecstasy Use Among Undergraduate College Students

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 Kleiman, Temple University, Department of Public Health, proposed Fall 2007
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, Venk Kandadai, Department of Public Health, defended Spring 2008
 Topic: Information technology, posture and upper extremity musculoskeletal disorders (UEMSDs)

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

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

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 al-Based Adherence Program

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

FORMAL TEACHING

2020 to 2023	Translational Biology, Medicine and Health (TBMH) graduate program, Virginia Tech, Faculty of Health Sciences
2017 to 2018	Biostatistics (PHPP 508), University of Hawai`i at Hilo, College of Pharmacy
2016 to 2018	Biostatistics (PUBH 501), University of Pennsylvania, School of Medicine
2014 to 2015	Advanced Research Methods (PUBH 603), University of Pennsylvania, School of Medicine
2006 to 2008	Multivariable Biostatistics (PH 8012), Temple University, College of Health Professions
2005 to 2008	Biostatistics (PH 5002), Temple University, College of Health Professions
2005	Epidemiology (PH 3101), Temple University, College of Health Professions

MENTORSHIP

2021 to Present	<i>The Collaborative Undergraduate Biostatistics Experience (CUBE) Program</i> for students from Historically Black Colleges and Universities (HBCUs) in Virginia.
2021 to Present	<i>Brownbag Biostatistics and R Programming Bi-Weekly Lab Training Series</i> for the Integrated Translational Health Research Institute of Virginia (iTHRIV) Scholars Program.
2021 to 2023	Shawna Klahn, DVM, DACVIM-Oncology, Associate Professor, Medical Oncology, Virginia-Maryland College of Veterinary Medicine, Virginia Tech, iTHRIV Scholar Program Mentor.
2020 to 2022	Brittany Howell, PhD, Assistant Professor, Fralin Biomedical Research Institute (FBRI) at Virginia Tech, iTHRIV Scholars Program Mentor.
2020 to 2022	Alexandra DiFeliceantonio, PhD, Assistant Professor, Fralin Biomedical Research Institute (FBRI) at Virginia Tech, iTHRIV Scholars Program Mentor.
2019	Vu Q. Nguyen, MD, Carilion Clinic, iTHRIV Scholars Program Mentor.
2019	Shawn Stafford, MD, MAS, Vice Chair of Research, Department of Surgery Carilion Clinic Children's Hospital, iTHRIV Scholars Program Mentor.
2019	Lihua Shi, MS Applied Statistics, West Chester University, Department of Mathematics. Mentor.
2018 to present	Danielle Sieko, MS Biostatistics, Statistical Collaboration Mentor.
2018	Joshua Banks, MS Biostatistics, Drexel University, School of Public Health. Thesis Advisor.
2018	Eileen Regan, PhD Candidate, UPenn SON. Independent Study (Big Data Analysis) Advisor.
2018	Billy Rosa, PhD Candidate, UPenn SON. Independent Study (Advanced Quantitative Methods) Advisor.
2018	Amelia Schlak, PhD Candidate, UPenn SON. Independent Study (Advanced Quantitative Methods) Advisor.
2018	Rachele Lipsky, PhD Candidate, UPenn SON. Independent Study (Big Data Analysis) Advisor.
2018	Elizabeth Broden, PhD Candidate, UPenn SON. Independent Study (Longitudinal Methods) Advisor.
2017 to 2019	Alicia Lozano, MS Biostatistics, Statistical Collaboration Mentor.
2017 to 2020	Vicky Xu, MS Applied Statistics, West Chester University, Department of Mathematics. Internship Mentor.
2017 to 2018	Danielle Sieko, MS Biostatistics, Drexel University, School of Public Health. Internship Mentor.

2017	Alicia Lozano, MS Biostatistics, Drexel University, School of Public Health. Thesis Advisor.
2016	Eshita Malik, MPH Student, UPenn Engineering and School of Arts and Sciences, MS Biotechnology. Independent Study (Advanced Quantitative Methods), Advisor.
2016	Carina Gerveshi, MS Biostatistics, Drexel University, School of Public Health. Internship Mentor.
2015 to 2018	Introduction to Biostatistics, PUBH 501, Instructor
2015 to 2017	Alicia Lozano, MS Biostatistics, Drexel University, School of Public Health. Internship Mentor.
2015 to 2016	Whitney York, MS Biostatistics, Drexel University, School of Public Health. Internship Mentor.
2015 to 2016	Liming Huang, MS Biostatistics, Temple University, Fox School of Business. Internship Mentor.
2015 to 2016	Buffy Lloyd, PhD Candidate, Arizona State University, Biomedical Informatics. Formal mentor, Conference on Statistical Practice Mentorship Program.
2015	Nadya Golfenshtein, PhD Candidate, UPenn SON. Independent Study (Data management techniques in secondary datasets), Advisor.
2015	Elizabeth Novack, PhD Candidate, UPenn SON. Independent Study (HIV Statistical Methods), Advisor.
2015	Steven Brooks, MPH Student, UPenn SOM. Independent Study (Multi-level Methods), Advisor.
2015	Elizabeth Lakata, MS Biostatistics, Drexel University, School of Public Health. Internship Mentor.
2015	Aleda Leis, MS Biostatistics, Drexel University, School of Public Health. Thesis Advisor.
2014 to 2015	Advanced Quantitative Methods for Scholarship, PUBH 603, Instructor
2014 to 2015	Aleda Leis, MS Biostatistics, Drexel University, School of Public Health. Internship Mentor.
2014 to 2015	Elizabeth Mauer, MS Statistics, Temple University, Fox School of Business. Internship Mentor.
2014 to 2015	Rose Lu, MS Statistics, Temple University, Fox School of Business. Internship Mentor.
2014 to 2015	Fenfen Wang, MS Applied Statistics, West Chester University, Department of Mathematics. Internship Mentor.
2014	Nadya Golfenshtein, PhD Candidate, UPenn SON. Independent Study (Longitudinal Methods) Advisor.
2014	Alexis Zebrowski, MPH Student, UPenn SOM. Independent Study (Survival Methods) Advisor.

- 2014 Olushina Olawale Awe, LISA Fellow 2013-2014, Obafemi Awolowo University, Ile-Ife, Nigeria. Hosted Olawale at UPenn as a health science collaboration mentor.
- 2014 Paige Fisher, MS Biostatistics, Drexel University, School of Public Health. Thesis Advisor.
- 2013 to 2014 Paige Fisher, MS Biostatistics, Drexel University, School of Public Health. Internship Mentor.