J. Dominic DiSanto

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EDUCATION

Doctoral Student in Biostatistics   Aug 2022 - Present
Harvard University, T.H. Chan School of Public Health

M.S. in Biostatistics   Aug 2019 - Dec 2020
University of Pittsburgh, Graduate School of Public Health
Concentration in Health Data Science
Thesis: *Treelet Dimension Reduction of Diagnoses Among Intensive Care Unit Admissions*

B.S. in Neuroscience   Aug 2014 - Apr 2018
University of Pittsburgh, Dietrich School of Arts & Sciences
Minors in Statistics, Chemistry

PROFESSIONAL EXPERIENCE

Statistician   June 2020 - July 2022
U.S. Department of Veterans Affairs   Pittsburgh, PA
Center for Health Equity & Research Promotion - Biostatistics & Informatics Core

- Generate and present summary reports, data visualizations, and statistical analyses to clinical leads and investigators of VISN-level initiatives to adopt & implement new evidence-based practices
- Conduct statistical analyses for epidemiological studies in collaboration with clinical and quantitative investigators
- Program and optimize SQL & SAS data pipelines of VA & Medicare administrative data to construct research cohorts and summarize relevant, clinic-utilization metrics from the VA's data warehouse

Data Science Education Consultant   May 2020 - August 2021
University of Pittsburgh, Graduate School of Pharmacy   Pittsburgh, PA

- Generate publicly available, education resources for data science and machine learning in Python and R for the university's PharmacoAnalytics track
- Simulate data sets and construct use cases that emulate common data science practices in pharmaceutical research and quality assurance
- Integrate feedback from industry professionals to ensure resources prepare students for roles as data scientists, analysts, and quantitative researchers

Data Analyst   April 2018 - May 2020
University of Pittsburgh, School of Medicine   Pittsburgh, PA

- Conducted and presented statistical analyses for grant preparation and submission, national group collaboratives, and scientific publication
- Automated data cleaning and quality assurance of genetic, inflammatory biomarker, and functional outcome data using R and SAS
- Generated predictive model of seizure events following brain injury and interactive RShiny dashboard for prospective, clinical application among new patients

SKILLS

Programming: R, SAS, T-SQL, Python, Stata, LaTeX

PEER-REVIEWED JOURNAL PUBLICATIONS

Vijapur, S, Vaughan LE, **DiSanto D**., McKernan G, Wagner AK. "Treelet Transform Analysis to Identify Clusters of Systemic Inflammatory Variance in a Population with Moderate-to-Severe Traumatic Brain Injury" Brain, Behavior, & Immunity, Volume 95, 2021, 45-60, ISSN 0889-1591
https://doi.org/10.1016/j.bbi.2021.01.026.

Millville, KM, Awan N, **DiSanto D.**, Kumar RG, Wagner AK. "Early chronic systemic inflammation and associations with cognitive performance after moderate-to-severe TBI" Brain, Behavior, & Immunity - Health, Volume 1, 2021, 100185, ISSN 2666-3546.
https://doi.org/10.1016/j.bbih.2020.100185

Awan, N, **DiSanto D.** et al. " Evaluating the Cross-Sectional and Longitudinal Relationships Predicting Suicidal Ideation Following Traumatic Brain Injury", The Journal of Head Trauma & Rehabilitation, Volume 36, Issue 1, 2021, Pages E18-E29
http://doi.org/10.1097/HTR.0000000000000588

Kumar, RG, **DiSanto D.** et al. "Temporal Acute Serum Estradiol and Tumor Necrosis Factor-α Associations and Mortality Risk After Severe Traumatic Brain Injury", Journal of Neurotrauma, Volume 37, Issue 20, 2020, Pages 2189-2210
https://doi.org/10.1089/neu.2019.6577

Awan, N, **DiSanto D.** et al. "Interrelationships Between Post-TBI Employment and Substance Abuse: A Cross-lagged Structural Equation Modeling Analysis", Archives of Physical Medicine and Rehabilitation, Volume 101, Issue 5, 2020, Pages 797-806
https://doi.org/10.1016/j.apmr.2019.10.189

DiSanto D. et al. "Employment Stability in the First 5 Years After Moderate-to-Severe Traumatic Brain Injury", Archives of Physical Medicine and Rehabilitation, Volume 100, Issue 3, 2019, Pages 412-421, ISSN 0003-9993
https://doi.org/10.1016/j.apmr.2018.06.022

PUBLISHED ABSTRACTS & PRESENTATIONS

DiSanto, D. et al. (Abstract) "Characterizing Genetic Risk Factors of Seizures Following Traumatic Brain Injury", Journal of Neurotrauma: 36(13), A54-A55, 2019.

DiSanto, D. et al. (Abstract) "The interrelationship of post-TBI employment and substance abuse: a cross-lagged structural equation modeling analysis" Journal of Neurotrauma: 36 (13), A92-A93, 2019.

Awan, N, **DiSanto, D.** et al. (Abstract) "Understanding the cross-sectional and longitudinal relationships predicting suicidal endorsement following traumatic brain injury" Journal of Neurotrauma: 36 (13), A92-A92, 2019.

Awan, N, Vaughan, L, **DiSanto, D.**, S Vijapur, A Wagner. (Abstract) "Improving prediction of post-traumatic depression at 12 months after brain injury using random forest and logistic regression". Journal of Neurotrauma: 36 (13), A121-A121, 2019.

Weppner J, Kumar, RG, **DiSanto, D.**. (Abstract) "Temporal acute serum estradiol and tumor necrosis factor-α associations with mortality after severe traumatic brain injury". Journal of Neurotrauma: 36 (13), A123-A123, 2019.

J Ketchum, R Kumar, A Wagner, M Sevigny, **DiSanto, D.**, N Awan, W Davis, J Corrigan, A Miller. (Abstract) "Assessing the representativeness of a probabilistically linked sample of traumatic brain injury model systems cases with national trauma data bank acute care records". Journal of Head Trauma Rehabilitation: 35 (2), E196-197, 2020.

DiSanto D. (Presentation) "Employment Stability in the First 5 Years After Moderate-to-Severe Traumatic Brain Injury". University of Pittsburgh, Aging Institute Research Day Lightning Presenter (May 2017)

HONORS, AWARDS & MEMBERSHIPS

GStat Accreditation, American Statistical Association	August 2021
Top MS Student, University of Pittsburgh Department of Biostatistics	April 2021
Member, American Statistical Association	Jan 2021 - Present
Scholarship Recipient, University of Washington Department of Biostatistics Summer Institutes in Statistics and Modelling of Infectious Diseases	July 2020
Representative, University of Pittsburgh Mental Health Task Force	Jan 2020 - May 2020
Representative, Graduate School of Public Health's Budgetary Policy Committee	Jan 2020 - May 2020
Pennsylvania Commonwealth Equity Scholarship Recipient	Jan 2020
Elsie Hillman Fellow, University of Pittsburgh Institute of Politics	Aug 2017 – Apr 2018
Browne Leadership Fellow, University of Pittsburgh School of Social Work	Jan 2016 – Aug 2016
Full Tuition Merit Scholarship Recipient, University of Pittsburgh	Aug 2014 - Apr 2018