Nicholas Williams

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EDUCATION

M.P.H. Biostatistics, Columbia University, 2019

B.A. Psychology, University of Colorado at Boulder, 2017

PROFESSIONAL EXPERIENCE

2019– Weill Cornell Medical College
Research Biostatistician I, Division of Biostatistics
Department of Population Health Sciences

2018 Mailman School of Public Health
Research Assistant, Department of Biostatistics
Supervisor: Christine Mauro, Ph.D.

RESEARCH INTERESTS

Nonparametric causal inference methodology with application to health policy

Open source statistical software implementation with a focus on usability

PUBLICATIONS

Research in Statistics

2020 Díaz, I., **Williams, N.**, Hoffman, K. and Schenck, E. "Non-parametric causal effects based on longitudinal modified treatment policies." *arXiv* preprint: 2006.01366v2

Applied Health Sciences

2020 Thiesmeyer, J.W., Ullmann, T.M., Greenberg, J., **Williams, N.T.**, Limberg, J., Stefanova, D., Beninato, T., Finnerty, B.M., Vignaud, T., Leclerc, J., Fahey III, T.J., Mirallie, E.M., Brunaud, L. and Zarnegar, R.."Hypertension resolution after adrenalectomy for primary hyperaldosteronism: Which is the best predictive model?" *Surgery*. DOI: 10.1016/j.surg.2020.04.017

2020 Riley, C.A., Zheng, Z., **Williams, N.**, Smith, T.L., Orlandi, R.R. and Tabaee, A. "Concordance of self-reported practice patterns of American Rhinologic Society members with the International Consensus Statement of Allergy and Rhinology: Rhinosinusitis" *International Forum of Allergy and Rhinology*. DOI: 10.1002/alr.22533

2019 Hussain, I., Winston, G.M., Goldberg, J., Curri, C., **Williams, N.**, Chazen, J.L., Greenfield, J.P. and Baaj, A.A. "Impact of imaging modality, age, and gender on craniocervical junction angles in adults without structural pathology." *Journal of Craniovertebral Junction and Spine*. PMID: 32089618

Manuscripts in Preparation

2020 **Williams, N.** and Díaz, I. "lmtp: An R Package for Non-Parametric Causal Effects Based on Modified Treatment Policies." Target: *Journal of Statistical Software*, Fall 2020.

Blog posts

2020 **Williams, N.** "An introduction to estimating the causal Effects of feasible interventions." *Towards Data Science*.

INVITED TALKS

2020 "R Packages." Guest Lecture for Data Science I, Biostatistics and Data Science Program, Weill Cornell Medicine. New York, NY. October 14.

2020 "An Introduction to Answering Causal Questions with the lmtp R package." Weill Cornell Biostatistics Computing Club. New York, NY. July 14.

SOFTWARE

Maintainer

lmtp R: Non-Parametric Causal Effects of Feasible Interventions Based on Modified Treatment Policies

cabinets R: Project Specific Workspace Organization Templates

catfun R: Categorical Data Analysis

Contributer

broom R: Convert Statistical Objects into Tidy Tibbles

CONFERENCE ACTIVITY

Conference Presentations

Presenting author *italicized*.

2020 ***Williams, N.,*** Savenkov, O. and Chrea, B. "Estimating the Causal Effect of Surgical Treatment for Posterior Malleolus Fracture with Different Treatment Rules on Patient Reported Outcomes." Joint Statistical Meetings (Virtual), Philadelphia, PA.

2019 *Mauro, C.*, **Williams, N.** and An, A. "Experiences with Incorporating R into a Second-Level Biostatistics Course for MPH Students." Joint Statistical Meetings, Denver, CO.

GRANTS AND AWARDS

Awards and Honors

2017 Graduate with Distinction, University of Colorado at Boulder

Grants and Fellowships

2015 Virginia Summer Undergraduate Research Initiative. The relationship between cognitively oriented verbs and affect.

TEACHING EXPERIENCE

Weill Cornell Medicine

Data Science I (Teaching Assistant)

Columbia University

Categorical Data Analysis (Lead Teaching Assistant)

Research Methods, Quantitative Foundations (Teaching Assistant)

PROFESSIONAL AFFILIATIONS

2020– American Statistical Association

TECHNICAL SKILLS

`R`

`SAS`

`SQL`

`C++` (novice)

Updated August 2020