

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 Tabaei, 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

Blog posts

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

INVITED TALKS

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

SOFTWARE

Maintainer

- lmtip* 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

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

Updated July 2020