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

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

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

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

- Day, J., Conti, M.S., **Williams, N.**, Ellis, S.J., Deland, J.T. and Cody, E.A. "Contribution of First-Tarsometatarsal Joint Fusion to Deformity Correction in the Treatment of Adult-Acquired Flatfoot Deformity." *Foot and Ankle Orthopaedics*. DOI: 10.1177/2473011420927321
- Day, J., Kim, J., Conti, M.S., **Williams, N.**, Deland, J.T. and Ellis, S.J. "Outcomes of Idiopathic Flexible Flatfoot Deformity Reconstruction in the Young Patient." *Foot and Ankle Orthopaedics*. DOI: 10.1177/2473011420937985
- 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

- Williams, N. and Díaz, I. "Imtp: An R Package for Non-Parametric Causal Effects Based on Modified Treatment Policies." Target: *Journal of Statistical Software*, Fall 2020.
- Goel, A.R., Bruce, H.A, **Williams, N.** and Alexiades, G. "Long-Term Effects of Hearing Aids on Hearing Ability in Patients with Sensorineural Hearing Loss: A Retrospective Cohort Study." Target: *Journal of the American Academy of Audiology*, Fall 2020.
- Mehta, B., Brantner, C., **Williams, N.**, Szymonifka, J., Navarro-Millan, I.Y., Bass, A.R., Russell, L.A., Parks, M.L., Figgie, M.P., Nguyen, J.T., Ibrahim, S. and Goodman, S.M. "Primary Care Provider Density and Elective Total Joint Replacement Outcomes." Target: *Journal of Arthroplasty*, Fall 2020.

Blog posts

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.

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

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

ETEX

C++ (novice)

Ruby (novice)