

Nicholas Williams

Division of Biostatistics
Department of Population Health Sciences
Weill Cornell Medical College

Email: niw4001@med.cornell.edu
Phone: +1 719 650 1307
Web: nicholastwilliams.com

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 for stochastic treatment policies.
Open source statistical software development with a focus on the user experience of the applied statistician.

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

- 2020 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
- 2020 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
- 2020 Cronin, S., Conti, M., **Williams, N.** and Ellis, S.J. "Relationship Between Demographic and Radiographic Characteristics and Second Ray Pathology in Hallux Valgus Patients." *Foot and Ankle Orthopaedics*. DOI: <https://doi.org/10.1177/2473011420909088>
- 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 under review

- 2021 Winston, G., Guadix, S., Lavieri, M., Uribe-Cardenas, R., Kocharian, G., **Williams, N.**, Sholle, E., Grinspan, Z., and Hoffman, C. "Closed-Loop Vagal Nerve Stimulation for Intractable Epilepsy: A Single-Center Experience." Under review at *Seizure: European Journal of Epilepsy*, Winter 2021.
- 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" Under review at *Journal of the American Academy of Audiology*, Fall 2020.

Manuscripts in Preparation

- 2020 Day, J., Chrea, B., and **Williams, N.** "Fixation versus Non-Fixation of Posterior Malleolus Fractures." Target: *Foot and Ankle International*, Fall 2020.
- 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.

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 lmtip 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*.

- 2021 *Brantner, C., Pearce-Fisher, D., Moezina, C., ..., Williams, N., Demetres, M., and Goodman, S.* "Treatment knowledge and preferences for Black people with hip and knee osteoarthritis: A Systematic Literature Review and Meta-Analysis." European Congress of Rheumatology.
- 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. Project: "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 expert

SAS

SQL

TEX

Julia novice

C++ novice

Ruby novice

Updated February 2021