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 for stochastic treatment policies.

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

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

- 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." *Journal of the American Academy of Audiology*.
- 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
- 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
- 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

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.

Manuscripts in Preparation

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

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.

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.

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. 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

ETEX

Julia novice C++ novice Ruby novice