

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.
Open source statistical software development.

PUBLICATIONS

Applied Health Sciences

- 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.” *Seizure: European Journal of Epilepsy*. DOI: 10.1016/j.seizure.2021.03.030
- 2021 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*.
- 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 Lum, M., Chazen, J.L., **Williams, N.** and Riew, D. "Incidence of Internal Jugular Vein Compression by C1 Transverse Process and Styloid Process in Unselected Patient on CT Angiography." Under review at *Spine*.
- 2020 Díaz, I., **Williams, N.**, Hoffman, K. and Schenck, E. "Non-parametric causal effects based on longitudinal modified treatment policies." *arXiv preprint: 2006.01366v2*. Under review at *Journal of the American Statistical Association*.

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 lmtpr R package." Weill Cornell Biostatistics Computing Club. New York, NY. July 14.

SOFTWARE

Maintainer

- lmtpr* R: Non-Parametric Causal Effects of Feasible Interventions Based on Modified Treatment Policies
- cabinets* R: Project Specific Workspace Organization Templates
- simul* R: Fast Simultaneous Confidence Bands Based on the Efficient Influence Function and Multiplier Bootstrap

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

\LaTeX

Julia intermediate

C++ novice

Ruby novice

Updated April 2021