Mustafa Steven Ascha

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EDUCATION

Case Western Reserve University – B.A. **Economics**, Minor Philosophy – June 2011
Case Western Reserve University – M.S. **Medical Physiology** – June 2016
Case Western Reserve University – Ph.D. **Clinical and Translational Science** – May 2019

SKILLSET

R - Python - BASH – SQL – git – tidyverse – SLURM HPC - experiment design - clinical research consulting

WORK

Biomedical and Patient-Centric Data ETL Specialist: March 2018 – present
Cleveland Institute for Computational Biology
Case Western Reserve University School of Medicine, Cleveland, OH. Supervisor: Mark Beno, MSM

Clinical Research Specialist, March 2016 – present
University Hospitals Cleveland Medical Center
Department of Otolaryngology and Head & Neck Surgery. Supervisor: Todd D Otteson, MD MPH
- Obtained institutional and federal approval for an Enlarged Vestibular Aqueduct (EVA) patient registry (see: rainbow.org/EVAResearch or clinicaltrials.gov/ct2/show/study/NCT02798783)

Teaching Assistant, **Statistical Methods I and Statistical Methods II**, Fall 2016 and Spring 2017
Department of Epidemiology and Biostatistics, CWRU, Instructor: Thomas E Love, PhD

RESEARCH

Ascha, MS, Manzoor, N., Gupta, A., Semaan, M., Megerian, C. and Otteson, T.D., 2017. Vestibular aqueduct midpoint width and hearing loss in patients with an enlarged vestibular aqueduct. *JAMA Otolaryngology–Head & Neck Surgery*, *143*(6), pp.601-608.

- Hearing loss progression is difficult to predict in patients with EVA because EVA is rare and fluctuates enough that advanced modeling approaches are required to achieve statistical significance
- I **designed this study** and collected an average of 5 hearing tests for 53 patients and **used mixed-effects models to identify relationships between inner ear anatomy and hearing loss**.

Ascha MS, Ostrom QT, Wright J, Kumthekar P, Bordeaux JS, Sloan AE, Schumacher FS, Kruchko C, Barnholtz-Sloan JS. Lifetime Occurrence of Brain Metastases Arising from Lung, Breast, and Skin Cancers in the Elderly: A SEER-Medicare Study. Cancer Epidemiol Biomarkers Prev May 1 2019 (28) (5) 917-925; DOI: 10.1158/1055-9965.EPI-18-1116

- I **designed this study** and **processed about 100GB of Medicare insurance claims records** to identify patients with a diagnosis of brain metastases, and evaluated that identification procedure with respect to a more limited cancer registry gold-standard data element.