Nikolas McNeal

nikolasmcneal.github.io

mcneal.121@osu.edu

EDUCATION

The Ohio State University — Columbus, Ohio
B.A. with Honors Research Distinction, Computer Science — August 2019 - Present
Graduation Expected: May 2023 — Cumulative GPA: 3.8/4.0

HONORS AND AWARDS

Ohio State University Eminence Fellowship, full cost-of-attendance merit award given to 25 incoming freshmen

Stamps Scholarship, full cost-of-attendance merit award given to five incoming freshmen

OSU Undergraduate Research Scholarship (2021), university undergraduate research award

OSU Decision Sciences Collaborative Scholarship (2021), university computational psychology research award

PROFESSIONAL EXPERIENCE

The Ohio State University, Department of Computer Science — October 2021 - Present
Research Intern, *advised by Professor Huan Sun* — *Columbus, Ohio*

Northwestern University, Department of Music — July 2021 - Present
Research Intern, *advised by Professor Daniel Shanahan* — *Remote*

Carnegie Mellon University, Department of Computer Science — May 2021 - Present
Research Intern, *advised by Professor Tai Sing Lee* — *Remote*

The Ohio State University, Department of Psychology — December 2019 - Present
Research Intern, *advised by Professor Ian Krajbich* — *Columbus, Ohio*

TEACHING

Quantitative Neuroscience, Teaching Assistant — *Spring 2023*
Math 4350 — The Ohio State University

PREPRINTS

[1]   **McNeal, N.**, Huang, J, Umoren, A., Dai, S., Dannenberg, R., Randall, R., Lee, T.S. (2022) *Relating Musicality and Preferability to Prediction in a Predictive Coding Model.* Submitted.

PUBLICATIONS

[1]   Gutierrez, B.J., **McNeal, N.**, Washington, C., Chen, Y., Li, L., Sun, H., Su, Y. (2022). *Thinking About Using GPT-3 for Biomedical Information IE? Think Again.* Findings of the 2022 Conference on Empirical Methods in Natural Language Processing (**EMNLP**) 2022. Presented in: Abu Dhabi, United Arab Emirates

CONFERENCE PRESENTATIONS

[1]   Shanahan, D., Kang, J., **McNeal, N.** (2023, August 24-28). *Understanding the Role of Schematic Knowledge in the Preference for Harmonic Asymmetry with Iterative Learning.* 17th International Conference on Music Perception and Cognition (**ICMPC**), Tokyo, Japan. Accepted. [**Oral**]

[2]   **McNeal, N.**, Shanahan, D. Kang, J., Hay, N. (2022, August 4-7). *Iterative Learning Suggests a Preference for Harmonic Asymmetry.* Society for Music Perception and Cognition (**SMPC**). Portland, Oregon. [**Oral**]

[3]   **McNeal, N.**, Shevlin, B., Krajbich, I. (2022, July 27-30) *What causes enhanced processing of high-value items?* 44th Annual Meeting of the Cognitive Science Society (**CogSci**). 2022 July; Toronto, Canada.

[4]   **McNeal, N.**, Umoren, A., Huang, J., Lee, T.S. (2021, August 6). *Unsupervised Musicality Prediction of Pitch Sequences.* CMU-Pitt Center of Neural Basis of Cognition's Undergraduate Program in Neural Computation. Pittsburgh, Pennsylvania

[5]   Umoren, A., **McNeal, N.**, Lee, T.S. (2021, August 6). *Probing PredNet's Internal Representations using Feature Visualization.* CMU-Pitt Center of Neural Basis of Cognition's Undergraduate Program in Neural Computation. Pittsburgh, Pennsylvania.