

# Nikolas McNeal

nikolasmcneal.github.io

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## EDUCATION

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### The Ohio State University

B.A. with Honors Research Distinction, Computer Science

*Graduation Expected: May 2023*

Columbus, Ohio

August 2019 - Present

Cumulative GPA: 3.8/4.0

## HONORS AND AWARDS

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**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

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### The Ohio State University, Department of Computer Science

Research Intern, *advised by Professor Huan Sun*

October 2021 - Present

*Columbus, Ohio*

### Carnegie Mellon University, Department of Computer Science

Research Intern, *advised by Professor Tai Sing Lee*

May 2021 - Present

*Remote*

### The Ohio State University, Department of Psychology

Research Intern, *advised by Professor Ian Krajbich*

December 2019 - Present

*Columbus, Ohio*

## TEACHING

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### Quantitative Neuroscience, Teaching Assistant

Math 4350

*Spring 2023*

The Ohio State University

## PREPRINTS

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**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*. Under Review.

## PUBLICATIONS

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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

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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. Submitted.

**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]

**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.

**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

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.