Chiebuka Ohams

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Education

2020 – 2024	🔖	**University of Maryland**, College Park, MD · GPA: 3.86/4.0 B.S. Mathematics · Applied Math Track. B.S. Computer Science. B.A. Linguistics.
2019 – 2020	🔖	**Carnegie Mellon University**, Pittsburgh, PA Electrical & Computer Engineering

Positions

2024 – · · · ·	🔖	**Research Technician** · EvLab · Massachusetts Institute of Technology **PI:** Dr. Ev Fedorenko · McGovern Institute for Brain Research
2021 – 2024	🔖	**Undergraduate Researcher** · CLIP Lab · University of Maryland **PI:** Dr. Philip Resnik · Institute of Advanced Computer Studies & Dept. of Linguistics
2023	🔖	**Summer Research Intern** · Group 41 · MIT Lincoln Labs **Mentor:** Dr. Erika Mackin · Homeland Protection & Air Traffic Control
2022	🔖	**Summer Research Intern** · BAIR · University of California Berkeley **Mentor:** Rodolfo Corona · SUPERB REU

Research Publications

Journal Articles

[1] **C. Ohams**, S. Nair, S. Bhattasali, and P. Resnik, "A predictive coding model of online sentence processing," *Journal of Memory and Language*, 2025, In press.

Preprints

[1] H. Kean, A. Fung, **C. Ohams**, *et al.*, *A human brain network specialized for abstract formal reasoning*, 2025. 🔗 DOI: 10.1101/2025.10.21.683445. eprint: https://www.biorxiv.org/content/early/2025/10/21/2025.10.21.683445.full.pdf.

Conference Proceedings

[1] T. I. Regev, **C. Ohams**, S. Xie, *et al.*, "The time scale of redundancy between prosody and linguistic context," in *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, W. Che, J. Nabende, E. Shutova, and M. T. Pilehvar, Eds., Vienna, Austria: Association for Computational Linguistics, Jul. 2025, pp. 30 476–30 488, ISBN: 979-8-89176-251-0. 🔗 DOI: 10.18653/v1/2025.acl-long.1471.

Conference Presentations

Posters

[1] **C. Ohams**, S. Bhattasali, and P. Resnik, *Semantic frames as a predictive cue during sentence processing*, 28th Architectures and Mechanisms of Language Processing Conference (AMLaP), 2022, York, United Kingdom.

[2] **C. Ohams**, S. Bhattasali, and P. Resnik, *Verbs' selectional preferences modulate N400 response in sentence processing*, 14th Annual Meeting of the Society of Neurobiology of Language (SNL), 2022, Philadelphia, PA.

Talks

Spring 2025	A Predictive Coding Model of Online Sentence Processing, Invited Talk, *NeuroCognition of Language Lab*, Tufts University
Spring 2024	A Predictive Coding Model of Online Sentence Processing, Workshop, *Psycholinguistics Workshop*, Department of Linguistics, University of Maryland
Winter 2023	Computational analysis of MEG and EEG data using Eelbrain, Workshop, *Winter Storm Workshop*, Department of Linguistics, University of Maryland

Teaching Experience

Spring 2024	**University of Maryland**, College Park, MD **Teaching Assistant** · LING311: Syntax I **Guest Lecture** · LING499R: Understanding Language Understanding

Skills

Programming	Python | MATLAB
Neuroimaging & Analysis	CONN toolbox | SPM | Freesurfer | FSL | Eelbrain
Data Analysis	Jupyter Notebook | Pandas | Matplotlib | Seaborn | Numpy
ML & NLP	HuggingFace | Pytorch | NLTK | spaCy
Other	Bash | Git/GitHub

References

Available on Request