

Amilleah Rodriguez
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EDUCATION

Jan 2024
Jun 2019

B.A., New York University, Language and Mind
Regents Diploma with Honors in Math and Science, West
Seneca East Senior High School, Buffalo, NY

- Academy of Life Sciences with Honors

AWARDS

Spring 2024

Spring 2023

Dean's Undergraduate Research Fund, New York University

- \$1000 for travel to LREC-COLING 2024

Dean's Undergraduate Research Fund, New York University

- James A. Shea Research Scholar Award
- \$900 for online behavioral data collection

EXPERIENCE

Jul 2024 – Aug 2025

Neuroscience of Language Lab, New York University
Junior Laboratory Associate (NSF Award [BCS-2335767](#)).

- Led piloting and scaling of standardized experimental protocol (IRB, online studies, MEG) for 7 human neuroimaging datasets.
- Mentored students in experimental design (programming stimulus presentation, extraction of linguistic variables from corpora, real-time data acquisition) and statistical analysis of linguistic, neuroimaging, and behavioral data.

Jan 2024 – Jul 2024

Assistant Research Scholar

- Coordinated multi-site MEG data acquisition for faculty research project investigating organization of linguistic computations in the brain.
- Generated preliminary results for grant submission.

Apr 2023 – Jan 2024

Lab Manager

- Created IRB protocol and data processing pipeline for language neuroscience experiments.

Apr 2022 – Apr 2023

Undergraduate Research Assistant (NSF [BCS-2140741](#))

- Applied preprocessing and artifact rejection methods to MEG dataset for statistical and source modeling.
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PROJECTS

Non-local conceptual combination in humans and machines

Publications

- **Rodriguez, A.**, Wang, S., & Pylkkänen, L. (2024). Do neural language models inferentially compose concepts the way humans can? In *Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)* (pp. 5309–5314). ELRA and ICCL. [\[Link\]](#).
- Parrish, A., **Rodriguez, A.**, & Pylkkänen, L. (submitted). *Non-local conceptual combination* [\[Preprint\]](#).

Presentations

- **Rodriguez, A.**, Wang, S., & Pylkkänen, L. (2024, May). *Do neural language models inferentially compose concepts the way humans can?* [Poster presentation]. 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024), Torino, Italia.
- **Rodriguez, A.** & Pylkkänen, L. (2023, April). *Non-local phrasal composition in large language models* [Invited talk]. UC Berkeley's 7th Annual Society of Linguistics Undergraduate Students Symposium, Berkeley, CA, United States.
- Parrish, A., **Rodriguez, A.**, & Pylkkänen, L. (2022, October). *Conceptual combination in non-local dependencies* [Poster presentation]. 14th Annual Meeting of the Society for the Neurobiology of Language, Philadelphia, PA, United States.

Backward surprisal in serial and parallel reading

Publications

- **Rodriguez, A.**, Flower, N., & Pylkkänen, L. (in preparation). *Backward surprisal in serial and parallel reading: MEG evidence for a stable neural index insensitive to context timing*.

Presentations

- **Rodriguez, A.**, Flower, N., & Pylkkänen, L. (2025, September). *Backward surprisal in serial and parallel reading* [Poster presentation]. 17th Annual Meeting of the Society for the Neurobiology of Language, Washington, DC, United States. [\[Link\]](#).
- **Rodriguez, A.**, Flower, N., & Pylkkänen, L. (2024, October) *Backward surprisal can reverse effects of forward surprisal*. [Poster presentation]. 2nd Annual Minds, Brains, Machines Poster Symposium, New York University, New York, NY, USA.

Structural priming in language comprehension

- Cataldo, J., **Rodriguez, A.**, & Pylkkänen, L. (2025, September) *Structural priming in comprehension with RPVP* [Poster presentation]. 17th Annual Meeting of the Society for the Neurobiology of Language, Washington, DC, United States. [\[Link\]](#).

Adjective ordering preference as a syntactic constraint in English

- Li, B., **Rodriguez, A.**, & Pylkkänen, L. (2025, September). *An MEG investigation of adjective order preferences as a syntactic constraint in English* [Poster presentation]. 17th Annual Meeting of the Society for the Neurobiology of Language, Washington, DC, United States. [\[Link\]](#).