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## EDUCATION

- Jan 2024                    B.A., New York University, Language and Mind  
Jun 2019                    Regents Diploma with Honors in Math and Science, West Seneca East Senior High School, Buffalo, NY
- Academy of Life Sciences with Honors
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## AWARDS

- Spring 2024                Dean's Undergraduate Research Fund, New York University
  - \$1000 for travel to LREC-COLING 2024
- Spring 2023                Dean's Undergraduate Research Fund, New York University
  - James A. Shea Research Scholar Award
  - \$900 for online behavioral data collection
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## 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](#)].