

# KYRA WILSON

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## PROFILE

Curious and dedicated recent graduate with two years' experience as a researcher seeking admission into the Information Science PhD program to gain the knowledge and skills to investigate biases using NLP systems. Equipped with the ability to extract meaningful information from complex data and a passion for using computational innovation for social good.

## EDUCATION

**Bachelor of Arts, Computer Science and Linguistics** 2020  
**Carleton College, Northfield, MN**

- Minor in Dance
- Honors: Cum Laude (3.71/4.0 GPA), Mortar Board
- Theses: "Text-Adaptive Generative Adversarial Networks" and "A Cross-Linguistic Overview of Allocutivity and its Syntactic Accounts"
- Relevant Coursework: Social Computing, Probability, AP Calculus AB (5), AP Calculus BC (5), AP Statistics (5)

## WORK EXPERIENCE

**Research Assistant**  
**Neuroscience of Language Lab, New York University Abu Dhabi** 2020-2023

- Developed and executed research projects, including experiment design, participant recruitment, running experiments, data analysis, and writing and presenting papers
- Increased efficiency of data analysis by using high performance computing cluster
- Operated and maintained a 208 channel magnetoencephalography (MEG) machine
- Trained other researchers in how to design and execute MEG experiments
- Performed administrative tasks such as record keeping and scheduling

**Teaching Assistant**  
**Carleton College, Northfield, MN** 2019-2020

- Courses: Introduction to Linguistics, Introduction to Syntax, Generative Approaches to Syntax, Social Computing
- Held office hours to assist students with problem sets and review before exams
- Assisted professors with grading, creating review materials, and other course tasks

**CSLI Summer Intern**  
**Language and Cognition Lab, Stanford University** 2019

- Investigated children's language development through corpus analysis
- Compared different acquisition models using techniques from Natural Language Processing
- Attended weekly seminars about current theories of language and cognition and state-of-the-art techniques used to investigate these

## Summer Research Partner

### Carleton College, Northfield, MN

2018

- Used Python scripting to organize database of Dakota language vocabulary and sentences
- Worked with native Dakota speakers to collect and transcribe language data
- Developed a unified account of Dakota noun phrase structure
- Organized previous scholarship published about Siouan languages

## Cultural Exchange Summer Intern

### Liberty Global, Amsterdam

2017

- Increased efficiency by creating a program to report monthly revenue allocation based on real time internet traffic data
- Wrote clear documentation of my project for future maintenance and updates

## PRESENTATIONS AND PUBLICATIONS

- **Wilson, K.**, Frank, M., C. & Fourtassi, A. Conceptual Hierarchy in Child-Directed Speech. (Under review).
- Fortin, C. & **Wilson, K.** DP Structure in Dakota. Proceedings of the Workshop on Structure and Constituency in the Languages of the Americas 24. (In press).
- **Wilson, K.** & Marantz, A. Contextual Embeddings Can Distinguish Homophony from Polysemy in a Human-Like Way. Fifth International Conference on Natural Language and Speech Processing. 2022.
- Irwin, T.\*, **Wilson, K.\*** & Marantz, A. The BERT Walked Down the Garden Path Assigned Semantic Roles (Poster). Fifth Workshop on analyzing and interpreting neural networks for NLP. 2022.
- **Wilson, K.** & Marantz, A. Understanding Ambiguous Words: An MEG Investigation (Poster). Sixth Annual Graduate and Postdoctoral Research Showcase at NYUAD. 2022.
- **Wilson, K.** & Marantz, A. Replicating the Ambiguity Advantage in MEG Using a Novel Method for Quantifying Number of Senses (Poster). Fourteenth Meeting of the Society for the Neurobiology of Language. 2022.
- **Wilson, K.** & Marantz, A. An MEG Investigation of Category Ambiguous Words' Number of Roots and the Homonymy/Polysemy Distinction (Poster). Thirteenth Meeting of the Society for the Neurobiology of Language. 2021.
- Fourtassi, A., **Wilson, K.** & Frank, M., C. Discovering Conceptual Hierarchy Through Explicit and Implicit Cues in Child-Directed Speech. Proceedings of the 42nd Annual Meeting of the Cognitive Science Society. 2020.
- Fortin, C. & **Wilson, K.** DP Structure in Dakota (Poster). Workshop on Structure and Constituency of Languages of the Americas. 2019.
- **Wilson, K.** Deriving 'Yute' and 'Wote' in Dakota (Poster). 12th Annual Toronto Undergraduate Linguistics Conference. 2019. (Invited)

## LEADERSHIP EXPERIENCE

- Student Director of Semaphore Repertory Dance Company (2019–2020)
- Choreographer for multiple dance groups (2016–2020)
- Board member of Firebellies Cooking Club (2017–2020)

## PROFESSIONAL SKILLS

Microsoft Suite, Google Workspace



Python, Java, Julia, R, Bash



Spanish, French

