

# SHERIDAN FEUCHT

First-Year Computer Science PhD student at Northeastern University

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## EDUCATION

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**Bachelor of Science in Computer Science**, Brown University, GPA: 4.0

May 2023

*Selected Coursework:* Logic in Language and Mind, Language Processing in Humans and Machines, Syntax, Psycholinguistics, Pattern Theory, Information Theory, Functional Programming (Racket, ReasonML), Software Engineering (Java), Systems (C, x86 Assembly)

## RESEARCH EXPERIENCE

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**Brown University LUNAR Lab** - Undergraduate Researcher

Feb 2022 - September 2023

- Evaluating CNN, ResNet, and ViT performance classifying same-different relations between two shapes in an image, determining whether model can generalize to unseen shapes (See **Publication 1**).
- Collecting human data on Amazon MTurk to compare with model performance on image classification tasks

**Brown University AI Lab** - Undergraduate Researcher

Feb - Dec 2021

- Used LDA topic modeling to sample news articles from CNN/DailyMail
- Collected and validated human annotations on Amazon MTurk for 3000 sampled news articles
- Fine-tuned language models on corpus of newly-collected data
- Presented this work to Brown AI and ML Labs and as a Findings paper at ACL 2022 (see **Publication 2**)

**Brown University Sloman Lab** - Research Assistant

Mar 2020 - Jul 2021

- Developed a new manual for syntactic and discourse-level annotation of documents
- Annotated human- and computer-generated documents to create a corpus of online discourse
- Presented on this work as a poster at CogSci 2021 (see **Publications 3, 4**)

**University of Calgary de Koning Lab** - Research Assistant

Jul 2018 - Jun 2019

- Simulated spread of genetic mutations in populations on computing cluster using Linux/Slurm

## PUBLICATIONS AND PRESENTATIONS

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1. Alexa R. Tartaglioni\*, Sheridan Feucht\*, Michael A. Lepori, Wai Keen Vong, Charles Lovering, Brenden M. Lake, and Ellie Pavlick. Deep Neural Networks Can Learn Generalizable Same-Different Visual Relations. arXiv preprint. 2023. (\*Equal contribution.)
2. Seyed Ali Bahrainian\*, Sheridan Feucht\*, and Carsten Eickhoff. NEWTS: A Corpus for News Topic-Focused Summarization. *Findings of the Association for Computational Linguistics*. 2022. (\*Equal contribution.)
3. Sheridan Feucht, Babak Hemmatian, Rachel Avram, Alexander Wey, Muskaan Garg, Kate Spitalnic, Carsten Eickhoff, Ellie Pavlick, Bjorn Sandstede, Steven Sloman. The Anatomy of Discourse: Linguistic Predictors of Narrative and Argument Quality Motivation (Poster). *43rd Annual Meeting of the Cog. Science Society*. 2021.
4. Babak Hemmatian, Sheridan Feucht, Rachel Avram, Alexander Wey, Muskaan Garg, Kate Spitalnic, Carsten Eickhoff, Ellie Pavlick, Bjorn Sandstede, Steven Sloman. A Novel Corpus of Discourse Structure in Humans and Computers. *The 2nd Workshop on Computational Approaches to Discourse at EMNLP*. 2021.

## WORK EXPERIENCE

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**Brown University** - Undergraduate Teaching Assistant (Ghanaian Drumming)

Jan - May 2022

- Leading weekly rehearsals, teaching students Ghanaian drumming, dancing, and singing.

- Assisting Prof. Kwaku Kwaakye (Martin) Obeng in weekly classes.
- Meeting with students one-on-one to work through musical concepts.

**Brown University** - Undergraduate Teaching Assistant (Computational Linguistics) Sep - Dec 2022

- Developed assignment on machine translation, making students put together their own Transformer model
- Assisted in developing assignments on topic modeling, BERT finetuning, and dependency parsing
- Held office hours to explain NLP concepts to students and help them debug their assignments

**Brown University** - Undergraduate Teaching Assistant (Introduction to Music Theory) Sep - Dec 2022

- Assisting lecture section for MUSC 0400A (Introduction to Music Theory) with Professor Andrew Welch.
- Holding office hours to help students with sight-singing, musical notation, and composition.
- Assisting in administrative tasks and answering student questions.

**Brown University** - Undergraduate Teaching Assistant (Intro. to Computer Systems) Sep - Dec 2021

- Held conceptual office hours to answer student questions on course concepts (e.g. procedure calls and stack frames, memory/heap management, concurrent programming)
- Held code-based office hours to help students debug their assignment code (C, x86 Assembly)

**Shaw Communications** - Data Strategy Summer Student May - Aug 2020

- Queried, validated, and investigated company data to increase understanding of consumer behavior
- Wrote stored procedures and views in SQL to help implement foundational pipelines