

# Brennan Dell

MA/PhD Student in Linguistics

University of Illinois at Urbana-Champaign

## EDUCATION

### **University of Illinois at Urbana-Champaign**

Ph.D. in Linguistics. Expected May 2023

M.A. in Linguistics. Expected May 2020.

### **Rochester Institute of Technology**

B.S. in Computer Science, minor in German. May 2018.

## EMPLOYMENT HISTORY

*Teaching Assistant*

**University of Illinois at Urbana Champaign**

Urbana, Illinois

**August 2019 - Present**

- Served as the primary instructor for LING270 - “Language, Technology, and Society”
- Developed assignments related to the course material
- Delivered lectures on a broad array of topics to a diverse group of students

*NLP Intern*

**AbbVie Inc.**

Urbana, Illinois

**June 2019 - August 2019**

- Developed a preliminary Spanish-English translation model using OpenNMT to translate patient narratives
- Reviewed literature to understand the state of the art for machine translation

*Graduate Assistant*

**University of Illinois at Urbana Champaign**

Urbana, Illinois

**August 2018 - May 2019**

- Assisted the Less Commonly Taught Languages Program with advertising efforts and organizing summer programs
- Maintained the website for the Linguistics Department
- Collected and announced information for the Linguistics Department seminar series

*Undergraduate Research Assistant*

**Rochester Institute of Technology**

Rochester, New York

**January 2018 - July 2018**

- Studied the supernova rate in the outskirts of spiral galaxies (published in Chakrabarti et al. 2018)
- Investigated the effect of dwarf galaxy collisions on the structure of the Milky Way

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*MA/PhD Student in Linguistics*

*University of Illinois at Urbana-Champaign*

*Software Test Automation Intern*

**Ortho Clinical Diagnostics**

Urbana, Illinois

**May 2017 - December 2017**

- Independently designed, implemented and tested a C# application to automate data entry tasks for the test validation team
- Used UFT to automate regression testing for user interfaces of company products

*Undergraduate Research Assistant*

**Center for Computational Relativity and Gravitation**

Rochester, New York

**September 2016 - May 2017**

- Worked with visualization software on a supercomputing cluster to create animations of black hole collisions

*Undergraduate Research Assistant*

**Rochester Institute of Technology**

Rochester, New York

**January 2016 - March 2017**

- Worked with an astrophysics professor studying galaxy collisions
- Created an optimized Python program which processed a large data set of galaxies to find potential collisions

*Software Engineering Co-op*

**Lenel Systems International**

Pittsford, New York

**August 2015 - December 2015**

- Debugged an issue in a script that was used to identify and sign company written files after a company name change
- Updated the file signing script to handle changes in company names in the future
- Identified files in the build process that were no longer being used and could be removed
- Gained experience in the Agile methodology

*Student Lab Instructor*

**Rochester Institute of Technology**

Rochester, New York

**August 2014 - May 2015**

- Assisted the professor with the delivery and grading of an introductory computer science course
- Assisted various students in the course and in the tutoring center outside of the course

## PUBLICATIONS

### **The Supernova Rate Beyond the Optical Radius**

Sukanya Chakrabarti, Brennan Dell, Or Graur, Alexei Filippenko, Benjamin Lewis, Christopher McKee

*The Astrophysical Journal Letters*, Vol 863, L1. July 2018.

<https://arxiv.org/abs/1807.07585>

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*MA/PhD Student in Linguistics*

*University of Illinois at Urbana-Champaign*

## **Towards High-quality Neural Machine Translation for Polysynthetic Languages**

Brennan Dell, Lane Schwartz

Qualifying Paper for the Master of Arts Degree in Linguistics

University of Illinois at Urbana-Champaign