

# EILEEN BLUM (she/her)

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## Education

Sept 2015 – Jan 2023

2012 - 2014

2010 - 2012

**PhD in Linguistics**, *Rutgers University*, New Brunswick, NJ

**BA in Linguistics**, *University of California Santa Cruz*, Santa Cruz, CA

**IGETC Certificate**, *Diablo Valley College*, Pleasant Hill, CA

## Writing Experience

7/2021 - 7/2022

**Dialogue Designer**, *Tek Systems - Contract*, Remote in New Jersey, USA

Google CCAI

- Write two best practices documents for Dialogflow CX, published by Google
- Write documentation guide, Proofread and edit ReadMe for new SCRAPI Python library, published by Google
- Write 17 instructional documents to clarify processes and train new team members
- Collaborate with bot building experts and engineers to understand subject matter
- Annotate conversation data to identify virtual agent failures and successes

9/2015 - 6/2022

**Linguistics Fellow**, *Rutgers University – Full Time*, New Brunswick, NJ

- Write PhD dissertation: multi-year research project, edit and proofread own work for publication, Collaborate with experts in four disciplines
- Write mid-length qualifying research paper: collect and annotate human acoustic data
- Write short theoretical linguistics papers in phonology, syntax, and semantics
- Communicate ideas to a variety of audiences, technical and non-technical
- Utilize APA guidelines for all academic writing

## Teaching Experience

9/2017 - 6/2020

**Teaching Assistant**, *Rutgers University – Full Time*, New Brunswick, NJ

- Primary instructor for two Expository Writing courses with 30 students each
- Primary instructor for two Introduction to Linguistics courses with 27 students each
- Wrote response memos to student drafts detailing plans for improvement and revision

## Python Projects

2/1/2021 - 3/31/2021

**Metal Lyrics Generator**, *Erdős Institute*, Natural Language Processing Bootcamp

- Built a Wasserstein Generative Adversarial Network (WGAN) to generate metal song lyrics in lines of 8 words . Compared with Soft-GAN
- Kaggle dataset, Python packages and methods: NLTK, Keras, Tensorflow, Numpy, Pandas
- Calculated BLEU scores to determine naturalness of generated lyrics:
  - WGAN: 0, Soft-GAN averaged 0.06 for n-grams of length 1-4

5/2020

**Metal or Not?**, *Erdős Institute*, Data Science Bootcamp

- Created a classifier to distinguish song lyrics by genre
- Two Kaggle data sets, Python packages and methods: GenSim, NLTK, Word2Vec, PCA
- K-clustering and DecisionTreeClassifier achieved 81% accuracy

## Skills

Word Processing

Programming

## Languages

Conversational

Basic

Microsoft Office Suite, Google Suite, Rmarkdown, LaTeX

Dialogflow, Python, R, html, CSS

French

Irish Gaelic

## References (email is most reliable)

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Roman Holowinsky (Founder at Erdős Institute): (908)425-1412, [holowinsky@gmail.com](mailto:holowinsky@gmail.com)