**EILEEN BLUM (she/her)**

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**Education**

Sept 2015 – Oct 2022 **PhD in Linguistics***, Rutgers University ,* New Brunswick, NJ

2012 - 2014 **BA in Linguistics**, *University of California Santa Cruz*, Santa Cruz, CA

2010 - 2012 **IGETC Certificate,** *Diablo Valley College,* Pleasant Hill, CA

**Writing Experience**

7/6/2021-7/6/2022 **Dialogue Designer**, *Tek Systems - Contract*, Remote in New Jersey, USA

Google CCAI

* Write best practices documentation for Dialogflow CX in collaboration with team leaders and Google software engineers
* Proofread and edit documentation for new SCRAPI Python library
* Write task and process documentation to track changes and train new team members
* Annotate conversation data to identify virtual agent failures and successes

9/2015-10/2022 **Linguistics Fellow**, *Rutgers University – Full Time*, New Brunswick, NJ

* Write PhD dissertation: annotate and analyze natural language data to determine how our minds compute a human language sound pattern
* Write qualifying research paper: analyze Munster Irish native speaker recordings, annotate acoustic data
* Write term papers for linguistics courses in phonology, syntax, and semantics
* Write conference presentations that simplify complex ideas for a technical audience
* Write funding proposals that communicate technical concepts to non-technical audiences
* 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,** *Erdös 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?**,](https://github.com/eileenblum/Music-Project) *Erdös 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 Microsoft Office, Google Suite, Rmarkdown, LaTex

Programming Dialogflow, Python, R, html, CSS

**Languages**

Conversational French

Basic Irish Gaelic

**References** (email is most reliable)

Adam Jardine (Academic Advisor): (848)932-0497, adam.jardine@rutgers.edu

Roman Holowinsky (Founder at Erdös Institute): (908)425-1412, holowinsky@gmail.com