

# Parker Glenn

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## EDUCATION

### Brandeis University

*M.S. in Computational Linguistics*

Waltham, MA

May 2022 Graduation

### University of California, Santa Barbara

*B.A. in Linguistics, Concentration in Speech and Language Technology*

Goleta, CA

September 2018 – June 2020

## TECHNICAL SKILLS

**Languages:** Python, Java, SQL, Bash

**Developer Tools:** PyTorch, Docker, Git, Amazon Web Services (AWS), Google Cloud Platform (GCP), SageMaker, HuggingFace, FastAPI, Flask, NLTK, Gensim, Mechanical Turk, Pandas, Dask, spaCy, Elasticsearch

## EXPERIENCE

### NLP Intern

May 2021 – Present

*Workhuman*

*Framingham, MA*

- Created system for information extraction and temporally-dependent topic modeling with **Gensim** and **Pandas**, winning an internal Customer Strategy innovation competition
- Developed Python package to calculate and visualize inter-annotator agreement from AWS Ground Truth data, with **Numpy** and **Seaborn**
- Created internal template for training and deploying custom **PyTorch** models on **SageMaker** using **Docker** containerization

### Graduate Research Assistant

August 2020 – October 2021

*Brandeis University*

*Waltham, MA*

- Researched affordance extraction and multi-modal NLU under Prof. James Pustejovsky
- Co-authored paper on [Competence-based Multimodal Question Answering](#)
- Designed and deployed **Mechanical Turk** annotation task for pairing actions to images

### Junior Software Engineer

October 2019 – August 2020

*Briq*

*Santa Barbara, CA*

- Previous roles: Data Science Intern, Data Science Associate
- Created and managed **Python** microservices deployed in **Kubernetes** with **Docker**
- Built pipeline for annotating large quantities of documents with **Google AutoML** predictions
- Developed semantic search built on **ElasticSearch**
- Engaged directly with clients to understand their needs, establish time frames, and implement realistic solutions

### Data Science Club Leader

September 2019 – June 2020

*Data Science Club, UC Santa Barbara*

*Santa Barbara, CA*

- Mentored a group of approximately 100-150 students as they completed projects applying various techniques in Data Science
- Designed a **Jupyter Notebook** curriculum to introduce beginners to concepts in Git and data visualization

## RELEVANT PROJECTS

### Discourse Referent Prediction | *Python, FastAPI, PyTorch, Docker*

September 2021 - December 2021

- Trained a neural language model with augmented entity representations to predict future referents
- Created model training and evaluation pipeline in **PyTorch**
- Deployed interactive demo to Heroku with **Docker**

### SHAP Dimensionality Reduction | *Python, SHAP, SentEval, Numpy*

September 2020 - December 2020

- Conducted research on dimensionality reduction of word embeddings and analyzed performance on downstream tasks
- Used the explainability tool **SHAP** to analyze marginal contributions of embedding dimensions within different machine learning models
- Created a set of tools to visualize linguistic trends learned by the models

## RELEVANT COURSEWORK

Data Structures and Algorithms

Advanced Programming in Java

Phonology

Advanced Computational Linguistics

Neural Networks and Deep Learning

Semantics

Statistical Methods for NLP

Morphology

Syntax