

# DENİZ BAYAZIT

## Graduate Research Assistant

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bayazitdeniz.github.io

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## EDUCATION

### PhD. in Computer Science

EPFL - École Polytechnique Fédérale de Lausanne

- Depth area: AI.

September 2021 - Present

Lausanne, Switzerland

### MSc. & BSc. in Computer Science

Brown University

- Graduate: AI/ML Pathway.
- Undergraduate: AI/ML and Data Science Pathways with Honors.
- Awards:** *Honorable Mention* for the Computing Research Association's (CRA) Outstanding Undergraduate Researcher Award 2020, Interdisciplinary Team Undergraduate Teaching and Research Award (Summer 2019, Fall 2019).
- Coursework:**
  - Artificial Intelligence, Deep Learning, Reinforcement Learning, Learning with Limited Labels, Data Science, Reintegrating AI
  - Language Processing in Humans and Machines, Special Topics in Computational Linguistics: Computer Vision
  - Statistical Inference, Linear Algebra, Multivariable Calculus
  - Lexical Semantics, Introduction to Linguistics, Logic for Systems

September 2016 - May 2021

Providence, RI

## EXPERIENCE

### Graduate Research Assistant

EPFL NLP

- Advisor:** Antoine Bosselut

September 2021 - Present

Lausanne, Switzerland

### Graduate Research Assistant

LUNAR Laboratory

- Advisor:** Ellie Pavlick
- Probing grounded representations of compositions (bigrams, trigrams, fourgrams) in BERT with (1) Distributions over Quantities and (2) Amazon Product Reviews datasets.

August 2020 - May 2021

Providence, RI

### Graduate Teaching Assistant - Language Processing in Humans and Machines

Brown University

- Professors:** Ellie Pavlick, Roman Feiman
- Assisted in teaching an interdisciplinary course. Mentored students on symbolic and distributional/connectionist language processing models. Created a semantic parsing assignment, held discussion sections (1hr/week), graded assignments and assisted on Piazza. Course Code: CSCI 2952I/CLPS 1850.

January 2021 - May 2021

Providence, RI

### Volunteer Services

- Reviewer:** ICRA 2021, ML-RSA NeurIPS 2020 Workshop, ICRA 2020
- Mentorship:** Out in CS @Brown 2021, International Graduate Student @Brown 2021, WiCS @Brown 2020

## PUBLICATIONS & PREPRINTS

- K Zheng, **D Bayazit**, R Mathew, E Pavlick, S Tellex. (2021). *Spatial Language Understanding for Object Search in Partially Observed Cityscale Environments*. RO-MAN 2021.  
[PDF] [Website]
- M Berg\*, **D Bayazit\***, R Mathew, A Rotter-Abouyoun, E Pavlick, S Tellex. (2020). *Grounding Language to Landmarks in Arbitrary Outdoor Environments*. ICRA 2020.  
[PDF] [Video] [Data]
- B Huang, **D Bayazit**, D Ullman, N Gopalan, S Tellex. (2019). *Flight, Camera, Action! Using Natural Language and Mixed Reality to Control a Drone*. ICRA 2019.  
[PDF] [Video] [Data] [GitHub]

## TECHNICAL SKILLS

- Programming Languages:** Python [PyTorch, TensorFlow, scikit, pandas, transformers ...], Alloy (fluent); C, Scala, Java (familiar)
- Operating Systems & Software:** Linux (Ubuntu), Mac OS, Vim
- Version Control & Cloud Computing:** Git, Bitbucket, GCP
- Data Collection & Processing:** Amazon Mechanical Turk, spaCy, NLTK, SQL, Excel
- Typesetting:** LaTeX

## LANGUAGES

- Fluent:** English, Turkish, French
- Elementary:** Spanish, Japanese