

Tovly Deutsch

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EDUCATION

Harvard University

Cambridge, MA

A.B. in Computer Science and Linguistics.

May 2020

Honors: Magna Cum Laude in Field (GPA: 3.92). High Honors. John Harvard Scholar.

Thesis: [Linguistic Features for Readability Assessment](#)

Coursework: Advanced Machine Learning (graduate), Data Structures & Algorithms, Computational Photography, Cloud Computing, Systems Programming, Linear Algebra, Phonological Theory, Probability.

SELECTED PUBLICATIONS

T. Deutsch, M. Jasbi, S. Shieber

[Linguistic Features for Readability Assessment](#)

Oral Presentation. [To appear in] *Proceedings of the 15th Workshop on Innovative Use of NLP for Building Educational Applications (ACL 2020)*

A. Saleh, T. Deutsch*, S. Casper*, Y. Belinkov, S. Shieber

[Probing Neural Dialog Models for Conversational Understanding](#)

Oral Presentation. [To appear in] *Second Workshop on NLP for Conversational AI (ACL 2020)*

EXPERIENCE

Facebook

Menlo Park, CA

Software Engineer Intern

May – Aug 2019

- Expanded Oculus referrals by exposing on surfaces using React Native, React, and Redux.
- Designed and implemented native share sheet functionality for sending referrals in the Oculus app.

Etsy

New York, NY

Software Engineer Intern

Jun – Aug 2018

- Improved listing quality by extracting structured data for editing nudges using React and Redux.
- Experimented with customer photos by building a photo section for listing pages using PHP and JS.

EDM Enterprises

Contract Software Engineer

May – Dec 2017

- Developed an asset tracking & reporting system for medical waste containers using CodeReadr APIs.

SELECTED PROJECTS

[Learning Constraint Rankings with Sequence to Sequence Models](#)

Oct – Dec 2019

- Used sequence to sequence models to learn constraint rankings in Optimality theory.

[Analyzing Phonological Surfeit of the Stimulus in Neural Models](#)

Mar – May 2020

- Explored the ability of language models to learn phonotactic surfeit of the stimulus phenomena.

[Network Visualizer](#)

Apr – May 2018

- Used Mininet and Ryu to create a tool for monitoring and debugging complex network traffic.

TECHNICAL SKILLS

Languages: Python, C++, OCaml, C, R, Javascript, PHP

Technologies: PyTorch, Fairseq, ParlAI, Keras, Halide, scikit-learn, React