

ORION WELLER

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EDUCATION

Brigham Young University, Provo

Sept 2017 - April 2021

Bachelor of Science

GPA: 4.0/4.0

Majors: Computer Science and Statistics

Minor: Mathematics

Selected Courses: Natural Language Processing (graduate), Information Retrieval (graduate), Data Science Capstone, Machine Learning, Deep Learning

AWARDS

- Goldwater Scholarship, 2020
- Wessel/Marshall Memorial Scholarship, 2019
- Juanita Miller Nelson Scholarship, 2018
- BYU Dean's List (all semesters)

PUBLICATIONS

- [1] **Weller, O.**, Hildebrandt, J., Reznik, I., Challis, C., Tass, E. S., Snell, Q., Seppi, K., "You don't have time to read this: An exploration of document level reading time prediction," in *Proceedings of the 2020 Conference of the Association of Computational Linguistics*, (Seattle, United States), 2020.
- [2] **Weller, O.**, Seppi, K., "The rjokes dataset: A large scale humor collection," in *Proceedings of the 2020 Conference on Language Resources and Evaluation*, (Marseille, France), 2020.
- [3] **Weller, O.**, Seppi, K., "Humor detection: A transformer gets the last laugh," in *Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing*, (Hong Kong), 2019.

LIGHTLY-REFEREED PUBLICATIONS

- [4] **Weller, O.**, Sagers, L., Hanson, C., Snell, Q., Barnes, M., Tass, S., "Predicting mental health and suicidal ideation among adolescents using the risk and protective factor framework: A large scale machine learning approach (abstract only)," *Society for Prevention Research Conference*, 2020.

RESEARCH EXPERIENCE

Apple AI/ML Research

June 2020 - Present

Worked on the Siri Understanding team, focusing on machine translation. Mentor: Matthias Sperber.

Allen Institute for Artificial Intelligence

Jan 2020 - June 2020

Worked on the AllenNLP team, researching transfer learning, generalization, and robustness of question answering systems. Advisors: Matt Gardner and Sameer Singh. Work under review at EMNLP 2020.

Applied Machine Learning Lab

Dec 2018 - Dec 2019

Research in natural language understanding, meta-learning, and language generation. Work published at EMNLP [3] and LREC [2]. Advisors: Kevin Seppi and Nancy Fulda.

Data Mining Lab

Sept 2018 - Dec 2019

Studied psychological predictors of suicidal ideation and drug abuse using machine learning. Work accepted to the Society of Prevention Research Conference [4]. Advisor: Quinn Snell.

Capstone Project with Adobe Analytics

Sept 2018 - Apr 2019

Conducted a statistical study on Mechanical Turk to gather data for analysis of web content. Worked on document level reading time prediction. Work published at ACL [1]. Advisors: Ilya Reznik and Chris Challis.

ENGINEERING EXPERIENCE

Qualtrics

Apr 2019 - Aug 2019

Software Engineer

- Responsible for prototyping a new system for handling edits on the Data Pipeline team, managing data ingestion, flow, and storage.

Digi International

Oct 2017 - Jan 2019

Student Software Engineer

- Worked on building firmware for wireless networking modules on the Zigbee standard. Improved and standardized the way our radio modules sample I/O on the 802.15.4 protocol.

SELECTED PROJECTS

Best Model, R Package

Developed an R package to quickly and visually compare Machine Learning models on a given dataset, complete with hyperparameter tuning.

BYU Housing Finder, Android Application

Designed an Android application, Find BYU Housing, to help BYU students search for housing using Java, SQL and Google Maps, allowing for easy visual searches (Google Play)

TECHNICAL SKILLS

Languages

Python, C++, R, Golang, Java, Javascript

Frameworks & Tools

PyTorch, Linux, Mechanical Turk, Django