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
- BYU Scholarships: Wessel/Marshall Memorial (2019), Juanita Miller Nelson (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.**, Fulda, N., Seppi, K., "Can humor prediction datasets be used for humor generation? humorous headline generation via style transfer," *Proceedings of the Second Workshop on Figurative Language Processing @ ACL*, 2020.

[5] **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
Working on the Machine Intelligence team, researching **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'20.

Applied Machine Learning Lab Dec 2018 - Dec 2019
Research in **natural language understanding, meta-learning, and language generation**. Work published at EMNLP'19 [3] and LREC'20 [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 [5]. Advisor: Quinn Snell.

Capstone Project with Adobe Analytics Sept 2018 - Apr 2019
Worked on understanding how humans process large-scale text. Work published at ACL'20 [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

ACADEMIC SERVICE

ACL 2020 Group Mentoring Moderator
Helped manage and set up group mentoring sessions.