ORION WELLER

Provo Utah, 84604

http://orionweller.github.io ⋄ wellerorion@gmail.com

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] **Orion Weller**, Nicholas Lourie, Matt Gardner, Matthew Peters, "Learning from task descriptions," in *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing*, Nov. 2020.

[2] **Orion Weller**, Jordan Hildebrandt, Ilya Reznik, Christopher Challis, E. Shannon Tass, Quinn Snell, Kevin Seppi, "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*, Jul. 2020.

[3] **Orion Weller**, Kevin Seppi, "The rjokes dataset: A large scale humor collection," in *Proceedings of the 2020 Conference on Language Resources and Evaluation*, Mar. 2020.

[4] **Orion Weller**, Kevin Seppi, "Humor detection: A transformer gets the last laugh," in *Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing*, Nov. 2019.

LIGHTLY-REFEREED PUBLICATIONS

[5] **Orion Weller**, Luke Sagers, Carl Hanson, Quinn Snell, Michael Barnes, Shannon Tass, "Predicting mental health and suicidal ideation among adolescents using the risk and protective factor framework (abstract only)," *Society for Prevention Research Conference*, Jun. 2020.

[6] **Orion Weller**, Nancy Fulda, Kevin Seppi, "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*, Jul. 2020.

RESEARCH EXPERIENCE

Apple AI/ML Research   June 2020 - Sept 2020
Worked with the Machine Intelligence team, researching **machine translation**. Work to be submitted at EACL'20. Mentor: Matthias Sperber.

Allen Institute for Artificial Intelligence   Jan 2020 - June 2020

Worked on the AllenNLP team, researching **transfer learning, generalization, and robustness** for question answering. Work published at ENNLP'20 [1]. Advisors: Matt Gardner and Sameer Singh.

Applied Machine Learning Lab   Dec 2018 - Dec 2019; Sept 2020 - Present

Research in **natural language understanding, meta-learning, and language generation**. Work published at EMNLP'19 [4], LREC'20 [3] and FigLang'20 [6]. Advisors: Kevin Seppi and Nancy Fulda.

Data Mining Lab   Sept 2018 - Dec 2019

Studied psychological predictors of suicidal ideation using machine learning. Work accepted to the Society of Prevention Research Conference [5]. Advisors: Quinn Snell and Shannon Tass.

Capstone Project with Adobe Analytics   Sept 2018 - Apr 2019

Worked on understanding how humans process large-scale text. Work published at ACL'20 [2]. Advisors: Ilya Reznik and Chris Challis.

ENGINEERING EXPERIENCE

Qualtrics   Apr 2019 - Aug 2019

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

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)

SKILLS

Languages	English (native), Portuguese (intermediate)
Programming 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.