

DAVID MUELLER

Johns Hopkins University, Baltimore, MD

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RESEARCH INTERESTS

- Multi-Task Optimization and Inter-Task Conflict
- The Dynamics of SGD and Generalization in Neural Networks
- Empirically Analyzing Neural Network Loss Surfaces
- Applying the above to Multilingual Natural Language Processing

EDUCATION

Johns Hopkins University

PhD, Computer Science

Advisors: Mark Dredze and Nicholas Andrews

Sept 2018 - present

Baltimore, MD

Johns Hopkins University

Master of Science in Engineering, Computer Science

Sept 2018 - Fall 2021

Baltimore, MD

University of Texas

Bachelor of Science, Computer Science

Sept 2012 - May 2016

Austin, TX

RESEARCH EXPERIENCE

Research Assistant

Advised by Mark Dredze and Nicholas Andrews

2018-Present

Johns Hopkins University

Student Researcher

SCALE 2019 Workshop: <https://hlcoe.jhu.edu/research/scale/scale-2019/>

Summer 2019

HLTCOE, Johns Hopkins University

Undergraduate Researcher

Advised by Greg Durrett

2017-2018

University of Texas at Austin

PUBLICATIONS

1. Do Multi-Task Learners Suffer from Task-Conflict?
David Mueller, Nicholas Andrews, Mark Dredze
Findings of the 2022 Conference on Empirical Methods in Natural Language Processing
2. Ensemble Distillation for Structured Prediction
Steven Reich, **David Mueller**, Nicholas Andrews
Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing
<https://www.aclweb.org/anthology/2020.emnlp-main.450/>
3. Sources of Transfer in Multilingual Named Entity Recognition
David Mueller, Nicholas Andrews, Mark Dredze
Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics, 2020
<https://www.aclweb.org/anthology/2020.acl-main.720/>
4. Effective Use of Context in Noisy Entity Linking
David Mueller, Greg Durrett
Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing
<https://www.aclweb.org/anthology/D18-1126/>

TEACHING EXPERIENCE

- 2019 - Teaching Assistant for Machine Learning at Johns Hopkins University (CS 601.475, Fall Semester)

SERVICE

Community Service

- 2021, 2022, 2023 CLSP Graduate Admissions Committee, Johns Hopkins University
- 2020 CLSP Student Recruitment Committee, Johns Hopkins University

Reviewing

- ARR 2022
- NeurIPS 2022
- ICML 2020*, 2022
- ICLR 2020*, 2021*, 2022
- AISTATS 2022, 2023
- EMNLP 2020*, 2021, 2022
- ACL-IJCNLP 2020*, 2021, 2022

*Secondary Reviewer

OTHER SKILLS

Software Python, Tensorflow, PyTorch, Bash, \LaTeX

Languages English: professional proficiency. Spanish: conversational.