

Derek Tam

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Education

- 2018-2020 **University of Massachusetts Amherst, Amherst, MA.**
Master of Science in Computer Science; Concentration in Data Science; GPA: 4.0
- 2013-2017 **Carnegie Mellon University, Pittsburgh, PA.**
Bachelor of Science in Computer Science; Additional Major: Statistics

Experience

- May 2018 – **IESL Lab, Researcher**, Professor Andrew McCallum.
Present Improved deep learning string edit models by adding optimal transport
Implemented search based kernel methods in graphs for nearest neighbor problem
- July 2017 – **Carnegie Mellon University, Researcher**, Qinlan Shen.
May 2018 Scraped the web to create parallel corpora data in over 150 different languages
Ran state of the art machine translation models to determine sources of error
- May 2017 – **RoboTutor, Android Studio Developer**, Professor Jack Mostow.
May 2018 Contributed to Android app for Global Learning XPrize that won 1M
Implemented various games for children to learn math in Swahili
- May 2015 – **YogaTailor, Backend Developer**.
August 2015 Set up backend database to handle users with CRUD functionality
Developed global push notification system

Publications

Tam, D., Monath, N., Kobren, A., Traylor, A., Das, R., McCallum, A.
"Optimal Transport-based Alignment of Learned Character Representations for String Similarity" in *Association of Computational Linguistics (ACL) 2019*.
<https://www.aclweb.org/anthology/P19-1592/>

Skills

- Languages Python, Java, Linux Shell
- Frameworks PyTorch
- Tools Git, Eclipse

Coursework

- UMass Reinforcement Learning, Probabilistic Graphical Models, Deep Learning for Natural
Amherst Language Process, Machine Learning, Advanced Algorithms
- CMU Graduate Artificial Intelligence, Introduction Machine Learning, Data Mining, Advanced
Data Analysis, Modern Regression, Algorithms