

Carlos E. Jimenez
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Research Interests

LLM Training and Evaluation, LMs for Code and Software Engineering, LM Agents, Task-Oriented Dialogue

Education

Princeton University

September 2020 - Present

PhD Computer Science

Advisor: Prof. Karthik Narasimhan

University of Utah

January 2017 - May 2020

B. S. Computer Science (GPA: 3.95, Cum Laude)

Minor: Mathematics

Thesis Supervisor: Prof. Ellen Riloff

De Anza College

September 2015 - December 2017

Economics and Computer Information Science

Research

[SWE-bench: Can Language Models Resolve Real-World GitHub Issues?](#)

Carlos E. Jimenez*, John Yang*, Alexander Wettig, Shunyu Yao, Kexin Pei, Ofir Press, Karthik Narasimhan
in review (2023), * Equal Contribution

[C-STs: Conditional Semantic Textual Similarity](#)

Carlos E. Jimenez*, Ameet Deshpande*, Howard Chen, Vishvak Murahari, Victoria Graf, Tanmay
Rajpurohit, Ashwin Kalyan, Danqi Chen, Karthik Narasimhan
EMNLP (2023), * Equal Contribution

[MUX-PLMs: Pre-training Language Models with Data Multiplexing](#)

Vishvak Murahari, Ameet Deshpande, Carlos E. Jimenez, Izhak Shafran, Mingqiu Wang, Yuan Cao, Karthik
Narasimhan
EMNLP Findings (2023)

Reassessing the Role of Visual Supervision for Grounded Text Models

Carlos E. Jimenez, Alexander Wettig, Esha Mittal, Ziqing Huang, Austin W. Hanjie, Karthik Narasimhan
in review (2022)

[DataMUX: Data Multiplexing for Neural Networks](#)

Vishvak Murahari, Carlos E. Jimenez, Runzhe Yang, Karthik Narasimhan
NeurIPS (2022)

[CARETS: A Consistency and Robustness Evaluative Test Suite for VQA](#)

Carlos E. Jimenez, Olga Russakovsky, Karthik Narasimhan
ACL (2022)

[Learning Physical Commonsense Knowledge](#)

Carlos E. Jimenez
University of Utah Technical Report UUCS 20-005 (2020)

Awards

Nokia Bell Labs Prize (2nd Prize)	2022
DataMUX: Data Multiplexing Neural Networks	

Qualcomm Innovation Fellowship North America (<i>finalist</i>)	2022
Data Multiplexing Neural Networks	

Experience

Assistant Instructor	January 2022 - May 2022
Department of Computer Science, Princeton University COS 484, Natural Language Processing Taught by Prof. Karthik Narasimhan	

Assistant Instructor	January 2022 - May 2022
Department of Computer Science, Princeton University COS 487, Theory of Computation Taught by Prof. Gillat Kol	

Data Science Intern	May 2020 - September 2020
Kytheran Labs Salt Lake City, Utah	

Student Researcher	August 2019 - December 2019
Department of Mathematics, University of Utah Applications of Machine Learning and Data Science in Finance Supervised by Prof. Jingyi Zhu	

Teaching Assistant

August 2019 - December 2019

School of Computing, University of Utah

General assistant for CS 3100 Models of Computation

Taught by Prof. Ganesh Gopalakrishnan

Undergraduate Researcher

January 2019 - August 2019

School of Computing, University of Utah

Methods and Analysis in Numerical Data Computing

Advised by Prof. Ganesh Gopalakrishnan

Languages and Software

PyTorch, Huggingface Transformers, Python, Fairseq, Numpy, JAX, FLAX, Tensorflow, Plotly, C/C++, SQL, Unix/Linux, Git, C#, Racket, HTML/CSS, LaTeX, Amazon Mechanical Turk, Google Cloud