Tian Yun

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EDUCATION

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RESEARCH EXPERIENCE

LUNAR Lab & PALM Lab, Brown University

Providence, RI

Co-advised by Ellie Pavlick and Chen Sun

August 2020 – Present

- Investigated whether vision-and-language (VL) pretraining yields better linguistic representations.
- Researched whether pretrained vision-and-language (VL) models learn composable primitive concepts.
- Studied how grounded world representations emerge in embodied sequence modeling.

Humans to Robots Lab, Brown University

Providence, RI

Advised by Stefanie Tellex

March 2021 – Present

 Proposed a situation-aware coaching dialogue system that guides users to accomplish daily tasks by reasoning over uncertainties in the environment and asking clarification questions to the users.

BigScience Workshop, HuggingFace

Providence, RI

Advised by Ellie Pavlick

May 2021 - Jan 2023

• Co-led the engineering team in Evaluation working group to build an evaluation pipeline with a large set of prompted datasets for large language models.

DataMine Research Group, Wake Forest University

Winston-Salem, NC

Advised by Natalia Khuri

August 2019 – August 2020

 Built a pipeline with machine learning algorithms to extract information about safety and efficacy of drugs in pediatric populations from approved drug product labels.

PUBLICATIONS

- [1] Emergence of Grounded Representations in Embodied Sequence Modeling.
 Tian Yun*, Zilai Zeng*, Kunal Handa, Ashish Thapliyal, Bo Pang, Ellie Pavlick, Chen Sun.
 EMNLP 2023
- [2] Improved Inference of Human Intent by Combining Plan Recognition and Language Feedback. Ifrah Idrees, **Tian Yun**, Naveen Sharma, Nakul Gopalan, Stefanie Tellex, George Konidaris. IROS 2023
- [3] Do Vision-Language Pretrained Models Learn Primitive Concepts?

 Tian Yun, Usha Bhalla, Ellie Pavlick, Chen Sun.

 TMLR
- [4] Does Vision-and-Language Pretraining Improve Lexical Grounding? **Tian Yun**, Chen Sun, Ellie Pavlick.

[5] Mining Biomedical Texts for Pediatric Information.

Tian Yun, Deepti Garg, Natalia Khuri.

14th International Joint Conference on Biomedical Engineering Systems and Technologies, 2021

PREPRINTS

[6] BLOOM: A 176B-Parameter Open-Access Multilingual Language Model

Teven Scao et al.

arXiv preprint arXiv:2211.05100 (2022)

PROFESSIONAL EXPERIENCE

Google Mountain View, USA

Student Researcher, Advised by Bo Pang and Ashish Thapliyal

June 2022 – August 2022

• Studied how well vision-and-language models can leverage learned visual commonsense knowledge to adapt to new visual commonsense knowledge in synthetic environment.

Tencent Shenzhen, China Data Analyst Intern May 2019 – August 2019

- Extracted and processed billions of rows of data to monitor QQ Kandian and Kandian APP using Hive-SQL.
- Used Flask and Git Webhook to develop a back-end service to automate script uploading and task scheduling.
- Evaluated and predicted the customer attrition in the following week (AUC score of 0.9173).

TEACHING ASSISTANTSHIPS

CSCI-1470/2470: Deep Learning, Brown University Teaching Assistant	September 2021 – December 2021 Instructor: Chen Sun
CSCI-1460: Computational Linguistics, Brown University Teaching Assistant	January 2021 – April 2021 Instructor: Eugene Charniak
Computer Science Peer Tutor, Wake Forest University	September 2017 – May 2020

SERVICE (*outstanding reviewer)

Conference Reviewer

Computer Vision and Pattern Recognition (CVPR)
 2022, 2023

European Conference on Computer Vision (ECCV)

2022

International Conference on Computer Vision (ICCV)

2023**