Kaiyu Yang

PROFESSIONAL APPOINTMENTS

Meta Fundamental AI Research (FAIR)

Research Scientist

New York, NY
6/2024 - Present

,

California Institute of Technology
Pasadena, CA
Computing, Data, and Society Postdoctoral Fellow
9/2022 - 5/2024

Advisors: Pietro Perona and Yisong Yue

EDUCATION

Princeton University Princeton, NJ
Ph.D. in Computer Science 7/2022

Advisor: Jia Deng

University of Michigan Ann Arbor, MI

M.S. in Computer Science and Engineering 8/2018

Tsinghua University

Beijing, China

B.Eng. in Computer Science 7/2016

B.S. in Mathematics and Applied Mathematics 7/2016

RESEARCH INTERESTS

AI · Machine Learning · LLMs for Theorem Proving and Mathematical Reasoning

PUBLICATIONS

Preprint PyEuclid: A Versatile Formal Plane Geometry System in Python

Zhaoyu Li*, Hangrui Bi*, Jialiang Sun*, Zenan Li, Kaiyu Yang, Xujie Si.

In submission, 2025

Preprint Spectral Journey: How Transformers Predict the Shortest Path

Andrew Cohen, Andrey Gromov, Kaiyu Yang, Yuandong Tian.

In submission, 2025

Preprint Formal Mathematical Reasoning: A New Frontier in AI

Kaiyu Yang, Gabriel Poesia, Jingxuan He, Wenda Li, Kristin Lauter, Swarat Chaudhuri,

Dawn Song.

In submission, 2025

^{*} Equal contribution. † Equal advising

Preprint Towards Large Language Models as Copilots for Theorem Proving in Lean

Peiyang Song, Kaiyu Yang, Anima Anandkumar.

In submission, 2025

ICLR 2025 Proving Olympiad Inequalities by Synergizing LLMs and Symbolic Reasoning

Zenan Li*, Zhaoyu Li*, Wen Tang, Xian Zhang, Yuan Yao, Xujie Si, Fan Yang, Kaiyu Yang†,

Xiaoxing Ma†.

International Conference on Learning Representations, 2025

NeurIPS 2024 SciInstruct: A Self-Reflective Instruction Annotated Dataset

for Training Scientific Language Models

Dan Zhang, Ziniu Hu, Sining Zhoubian, Zhengxiao Du, <u>Kaiyu Yang</u>, Zihan Wang, Yisong Yue, Yuxiao Dong, Jie Tang.

Neural Information Processing Systems (NeurIPS), 2024

COLM 2024 A Survey on Deep Learning for Theorem Proving

Zhaoyu Li, Jialiang Sun, Logan Murphy, Qidong Su, Zenan Li, Xian Zhang, Kaiyu Yang,

Xujie Si.

Conference on Language Modeling (COLM), 2024

ICML 2024 Autoformalizing Euclidean Geometry

Logan Murphy*, <u>Kaiyu Yang</u>*, Jialiang Sun, Zhaoyu Li, Anima Anandkumar, Xujie Si.

International Conference on Machine Learning (ICML), 2024

NeurIPS 2023 LeanDojo: Theorem Proving with Retrieval-Augmented Language Models

<u>Kaiyu Yang</u>, Aidan Swope, Alex Gu, Rahul Chalamala, Peiyang Song, Shixing Yu, Saad Godil, Ryan Prenger, Anima Anandkumar.

Neural Information Processing Systems (NeurIPS), 2023, Oral presentation

CVPR 2023 Infinite Photorealistic Worlds using Procedural Generation

Alexander Raistrick*, Lahav Lipson*, Zeyu Ma*, Lingjie Mei, Mingzhe Wang, Yiming Zuo, Karhan Kayan, Hongyu Wen, Beining Han, Yihan Wang, Alejandro Newell, Hei Law, Ankit Goyal, Kaiyu Yang, Jia Deng.

Conference on Computer Vision and Pattern Recognition (CVPR), 2023

TMLR 2023 Learning Symbolic Rules for Reasoning in Quasi-Natural Language

Kaiyu Yang and Jia Deng.

Transactions on Machine Learning Research (TMLR), 2023

EMNLP 2022 Generating Natural Language Proofs with Verifier-Guided Search

Kaiyu Yang, Jia Deng, Danqi Chen.

Empirical Methods in Natural Language Processing (EMNLP), 2022, Oral presentation

ICML 2022 A Study of Face Obfuscation in ImageNet

<u>Kaiyu Yang,</u> Jacqueline Yau, Li Fei-Fei, Jia Deng, Olga Russakovsky. International Conference on Machine Learning (ICML), 2022

NeurIPS 2020 Strongly Incremental Constituency Parsing with Graph Neural Networks

Kaiyu Yang and Jia Deng.

Neural Information Processing Systems (NeurIPS), 2020

NeurIPS 2020	rIPS 2020 Rel3D: A Minimally Contrastive Benchmark for Grounding Spatial Relations in 3D		
	Ankit Goyal, <u>Kaiyu Yang</u> , Dawei Yang, Jia Deng. Neural Information Processing Systems (NeurIPS), 2020, Spotlight presen	tation	
FAT* 2020	Towards Fairer Datasets: Filtering and Balancing the Distribution of the People Subtree in the ImageNet Hierarchy		
	<u>Kaiyu Yang,</u> Klint Qinami, Li Fei-Fei, Jia Deng, Olga Russakovsky. <u>Conference</u> on Fairness, Accountability, and Transparency (FAT*), 2020		
ICML 2019	Learning to Prove Theorems via Interacting with Proof Assistants		
	Kaiyu Yang and Jia Deng. International Conference on Machine Learning (ICML), 2019		
ICCV 2019	SpatialSense: An Adversarially Crowdsourced Benchmark for Spatial Relation Recognition		
	Kaiyu Yang, Olga Russakovsky, Jia Deng. International Conference on Computer Vision (ICCV), 2019		
ECCV 2016	Stacked Hourglass Networks for Human Pose Estimation		
	Alejandro Newell, Kaiyu Yang, Jia Deng. European Conference on Computer Vision (ECCV), 2016		
	S AND GRANTS	2023	
Neurosymbolic AI for Autonomy Co-authored proposal awarded by Caltech's Center for Autonomous Systems and Technology.			
Siebel Scholar 42 computer science graduate students awarded annually from selected institutions worl		dwide	
Outstanding Reviewer Top 20% at the Conference on Computer Vision and Pattern Recognition (CVPR)			
Google Clou	nd Research Credits	2019	
Google Cloud Platform Outstanding Teaching Assistant Award Tsinghua University 2015			
MEDIA			
	that Allows LLMs to be used in Lean for Proof Automation	2024	
MarkTech Can LLMs (MarkTech	Generate Mathematical Proofs that can be Rigorously Checked?	2023	
Exploring th	ne Tradeoff Between Privacy and Algorithm Performance	2022	
	Devise Approach to Reduce Biases in Computer Vision Data Sets	2020	
	a Engineering News 1. Here's How Scientists Are Trying to Fix It	2019	

INVITED TALKS

Towards an AI Mathematician Brown University of California, Los Angeles University of California, Los Angeles University of Chicago FAIR, Meta AI University of Texas, Austin Towards Large Language Models as Copilots for Theorem Proving Lean Together Annual Meeting Lean Together Annual Meeting Lean Together Annual Meeting Lean For the Curious Mathematician Colloquium Meural Information Processing Systems (NeurIPS) Oral Presentation Stanford Software Research Lunch Conference on Artificial Intelligence and Theorem Proving (AITP) Bloskinson Center for Formal Mathematics, CMU Rutgers University of California, Los Angeles University of California, Los Angeles University of California, Santa Barbara University of California, Santa Barbara University of Southern California Blost: Lei Li, 11/2022 Teaching Machines to Reason Symbolically OpenAI Google University of Pennsylvania NSF "Understanding the World Through Code" Program Generating Natural Language Proofs with Verifier-Guided Search N2Formal Group, Google RESEARCH MENTORING RESEARCH MENTORING Zhaoyu Li PhD student @ University of Teronto Jiacheng Chen Undersymduate & South China University of Technology Peiyang Song Undersymduate & Collech → Researcher @ Together AI Shixing Yu Master's student & UT' Austin → Ph.D. student & Cornell Gene Chou Undersymduate & Princeton → Ph.D. student & Cornell Gene Chou Undersymduate & Princeton → Ph.D. student & Cornell Gene Chou Undersymduate & Princeton → Ph.D. student & Cornell Gene Chou Undersymduate & Princeton → Ph.D. student & Cornell Gene Chou Undersymduate & Princeton → Ph.D. student & Cornell Jacquelline Yau Master's student & Stanford → Ph.D. student & UIUC		
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Neurosymbolic Reasoning, From Formal Logic to Natural Language University of California, Los Angeles University of California, Santa Barbara University of Southern California Host: Lei Li, $11/2022$ University of Southern California Host: Xiang Ren, $10/2022$ Teaching Machines to Reason Symbolically OpenAI Google Host: Denny Zhou, $2/2022$ University of Pennsylvania NSF "Understanding the World Through Code" Program Host: Swarat Chaudhuri, $1/2022$ Renerating Natural Language Proofs with Verifier-Guided Search N2Formal Group, Google Host: Markus Rabe, $7/2022$ RESEARCH MENTORING Zhaoyu Li PhD student @ University of Toronto Jiacheng Chen Undergraduate @ South China University of Technology Peiyang Song Undergraduate @ UCSB \rightarrow Undergraduate @ Caltech Rahul Chalamala Undergraduate @ Caltech \rightarrow Researcher @ Together AI Shixing Yu Master's student @ UT Austin \rightarrow Ph.D. student @ Cornell Gene Chou Undergraduate @ Princeton \rightarrow Ph.D. student @ Cornell Jacqueline Yau 2019 - 2026		
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Shixing Yu		2023
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Gene Chou		2022 - 2023
Jacqueline Yau 2019 – 2020	Gene Chou	2021
		2010 2020
		2019 – 2020

TEACHING EXPERIENCE

Head Teaching Assistant, Tsinghua University

Advanced Large Language Model AgentsSpring 2025Guest Co-instructor, UC Berkeley & MOOC2024/5CS 159: Large Language Models for Reasoning2024/5Guest Lecturer, Caltech2021/2 - 2021/5COS 484/584: Natural Language Processing2021/2 - 2021/5Teaching Assistant, Princeton University2013/8 - 2016/7

SERVICE

Organizer

The 3rd Workshop on Mathematical Reasoning and AI @ NeurIPS 2023 Tutorial on Machine Learning for Theorem Proving @ NeurIPS 2023

Area Chair

International Conference on Machine Learning (ICML), 2025 European Conference on Computer Vision (ECCV), 2024

Reviewer

National Academies Workshop Proceedings: "AI to Assist Mathematical Reasoning"

European Research Council (ERC) Advanced Grant 2023

International Conference on Machine Learning (ICML)

Neural Information Processing Systems (NeurIPS)

International Conference on Learning Representations (ICLR)

Journal of Machine Learning Research (JMLR)

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)

Computer Vision and Pattern Recognition (CVPR)

International Conference on Computer Vision (ICCV)

European Conference on Computer Vision (ECCV)