

Baoxiong Jia

CONTACT INFORMATION

491 Engineering VI Phone: (240)550-4292
University of California, Los Angeles Email: baoxiongjia@cs.ucla.edu
Los Angeles, CA 90095, U.S.A. Homepage: buzz-beater.github.io/

EDUCATION

University of California, Los Angeles, Los Angeles, U.S.
Doctor of Philosophy (Ph.D.), Computer Science Sept. 2019 - present
Advisor: Prof. Song-chun Zhu
Overall GPA: 4.00/4.00

University of California, Los Angeles, Los Angeles, U.S.
Master of Science (M.S.), Computer Science Sept. 2017 - June 2019
Advisor: Prof. Song-chun Zhu
Overall GPA: 4.00/4.00

Peking University, Beijing, China
Bachelor of Science (B.S.) with **honor**, Computer Science Sept. 2014 - July 2018
Advisor: Prof. Yao Guo
Overall GPA: 3.63/4.00 (rank: 29/193)

RESEARCH INTEREST

Computer Vision Activity Recognition/Prediction, 4D Scene Understanding
Artificial Intelligence Planning and Inverse Planning, Intent Recognition
Machine Learning Representation Learning, Neural-symbolic Methods

PUBLICATION JOURNAL

* denotes equal contribution

- [1] Siyuan Qi, **Baoxiong Jia**, Siyuan Huang, Ping Wei, Song-chun Zhu. A Generalized Earley Parser for Human Activity Parsing and Prediction. *IEEE Transactions on Pattern Analysis and Machine Intelligence* (TPAMI) 2020.
- [2] Yuanchun Li, **Baoxiong Jia**, Yao Guo, Xiangqun Chen. Mining User Reviews for Mobile App Comparisons. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* (IMWUT) 2017. (presented at UbiComp17)

CONFERENCE

- [1] Chi Zhang*, **Baoxiong Jia***, Song-chun Zhu, Yixin Zhu. Abstract Spatial-Temporal Reasoning via Probabilistic Abduction and Execution. *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR) 2021.
- [2] Chi Zhang, **Baoxiong Jia**, Mark Edmonds, Song-chun Zhu, Yixin Zhu. ACRE: Abstract Causal REasoning Beyond Covariation. *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR) 2021.
- [3] **Baoxiong Jia**, Yixin Chen, Siyuan Huang, Yixin Zhu, Song-chun Zhu. LEMMA: A Multiview Dataset for LEarning MUlti-agent MUlti-task AEactivities. *European Conference on Computer Vision* (ECCV) 2020.
- [4] Chi Zhang*, **Baoxiong Jia***, Feng Gao, Yixin Zhu, Hongjing Lu, Song-chun Zhu. Learning Perceptual Inference by Contrasting. *Advances in Neural Information Processing Systems* (NeurIPS) 2019. (Spotlight)
- [5] Chi Zhang*, Feng Gao*, **Baoxiong Jia**, Yixin Zhu, Song-chun Zhu. RAVEN: A Dataset for RElational and AAnalogical VVisual rEasoNing. *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR) 2019.
- [6] Siyuan Qi*, Wenguan Wang*, **Baoxiong Jia**, Jianbing Shen, Song-chun Zhu. Learning Human-Object Interactions by Graph Parsing Neural Networks. *European Conference on Computer Vision* (ECCV) 2018.

- [7] Siyuan Qi, **Baoxiong Jia**, Song-chun Zhu. 2018. Generalized Earley Parser: Bridging Symbolic Grammars and Sequence Data for Future Prediction *International Conference on Machine Learning (ICML)* 2018.

RESEARCH EXPERIENCE	Center for Vision, Cognition, Learning and Autonomy		UCLA, U.S.A.
	<i>Research Assistant</i> , advised by: Prof. Song-chun Zhu		Sept. 2017 - present
	<ul style="list-style-type: none"> • 4D understanding of human activities and forecasting of both actions and scenes. • Intention prediction and inverse planning based on stochastic grammar parsing, inverse reinforcement learning and theory of mind theories. • Visual reasoning and induction for analogy in Raven Progressive Matrices. 		
	Alexa Research, Teachable AI Team		Amazon Inc., U.S.A.
	<i>Applied Scientist Intern</i> , advised by: Dr. Qing Ping		June 2021 - Sept. 2021
	<ul style="list-style-type: none"> • Conducted research on spatial-temporal reasoning for video question answering with a special focus on leveraging video-language models for generating spatial-temporal grounding and compositional methods for reasoning. 		
	Research and Development Department		DMAI Inc., U.S.A.
	<i>Software Engineering Intern</i> , mentored by: Tao Yuan		Apr. 2019 - Mar. 2020
	<ul style="list-style-type: none"> • Development of cognitive platform: 3D pose estimation, head pose and pointing gesture, modeling human beliefs. 		
	Operating System Lab		Peking University, P.R.C.
	<i>Research Intern</i> , advised by: Prof. Yao Guo		Feb. 2016 - May. 2018
	<ul style="list-style-type: none"> • Automatic app comparison generation by mining comparative user reviews from app markets and applying sentiment analysis methods. 		
TEACHING EXPERIENCE	University of California, Los Angeles, Department of Computer Science		
	COM SCI 32 Introduction to Computer Science II, <i>Teaching Assistant</i>		Spring 2020
	COM SCI 131 Programming Languages, <i>Teaching Assistant</i>		Fall 2020
	COM SCI 31 Introduction to Computer Science I, <i>Teaching Assistant</i>		Spring 2021
SELECTED HONORS AND AWARDS	Outstanding Reviewer Award, ICLR		2021
	Graduate Division Award, UCLA		2020
	Outstanding Reviewer Award, CVPR		2020
	NeurIPS Travel Award, NeurIPS		2019
	Excellent College Graduate Award, Peking University		2018
	Kwang-Hua Scholarship, Peking University		2014 - 2015
	Award for Academic Excellence, Peking University		2015 - 2016
SERVICES	Reviewer	IEEE Transactions on Image Processing (TIP)	2021
	Reviewer	International Conference on Machine Learning (ICML)	2021-2022
	Reviewer	Computer Vision and Pattern Recognition (CVPR)	2019-2022
	Reviewer	International Conference on Learning Representation (ICLR)	2021-2022
	Reviewer	AAAI Conference on Artificial Intelligence (AAAI)	2020-2021
	Reviewer	Neural Information Processing Systems (NeurIPS)	2020-2021
	Reviewer	European Conference on Computer Vision (ECCV)	2020
	Reviewer	International Conference on Computer Vision (ICCV)	2019,2021