

# ERIC ZHAN

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## EDUCATION

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<b>California Institute of Technology</b> Ph.D. Candidate, Computing & Mathematical Sciences, GPA: 3.8	2016 - Present
<b>Cornell University</b> B.A. Computer Science and Mathematics <i>summa cum laude</i> , GPA: 4.0	2012 - 2016

## RESEARCH & ACADEMIC EXPERIENCE

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<b>Machine Learning Research Assistant at Caltech (Advisor: Yisong Yue)</b>	Sept. 2016 - Present
<ul style="list-style-type: none"><li>Research in sequential decision making, focusing on developing new methods for imitation learning and spatiotemporal reasoning inspired by generative models, weak supervision, and reinforcement learning.</li><li>Proposed thesis topic: Generative Behavior Modeling with Programmatic Structure.</li></ul>	

<b>Teaching Experience</b>	Jan. 2016 - Present
<ul style="list-style-type: none"><li>Caltech Research Mentor: CS101 Projects in Machine Learning.</li><li>Caltech Teaching Assistant: CS159 Advanced Topics in Machine Learning.</li><li>Cornell Teaching Assistant: CS4820 Algorithms, CS4850 Math Foundations for the Information Age.</li></ul>	

### Honors & Awards

• Cornell Computer Science Honors Program <i>summa cum laude</i> .	2016
• Pauline and Irving Tanner Dean Scholar.	2012
• Honorable Mention at 42nd International Physics Olympiad.	2011

### Conference Reviewing

- NeurIPS 2020

## PUBLICATIONS

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Ameesh Shah\*, **Eric Zhan**\*, Jennifer Sun, Abhinav Verma, Yisong Yue, Swarat Chaudhuri. Learning Differentiable Programs with Admissible Neural Heuristics. *In submission, 2020*.

**Eric Zhan**, Albert Tseng, Yisong Yue, Adith Swaminathan, Matthew Hausknecht. Learning Calibratable Policies using Programmatic Style-Consistency. *ICML 2020*.

**Eric Zhan**, Stephan Zheng, Yisong Yue, Long Sha, Patrick Lucey. Generating Multi-Agent Trajectories using Programmatic Weak Supervision. *ICLR 2019*.

Yukai Liu, Rose Yu, Stephan Zheng, **Eric Zhan**, Yisong Yue. NAOMI: Non-Autoregressive Multiresolution Sequence Imputation. *NeurIPS 2019*.

Oliver Stephenson, Tobias Koehne, **Eric Zhan**, Brent Cahill, Zachary Ross, Mark Simons, Sang-Ho Yun. Deep Learning-based Damage Mapping with InSAR Coherence Time Series. *AGU Fall Meeting 2019*.

**Eric Zhan**, Stephan Zheng, Yisong Yue. MAGnet: Generating Long-Term Multi-Agent Trajectories. *Bayesian Deep Learning workshop, NeurIPS 2017*.

\*equal contribution

## INDUSTRY EXPERIENCE

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### **Research Intern at Argo AI (Tracking & Prediction)**

June 2020 - Present

- Developing new methods for trajectory forecasting.

### **Research Intern at Microsoft Research (Reinforcement Learning)**

June 2018 - Aug. 2018

- Investigated novel methods for calibrating agents to specific playstyles for playing Atari games via RL & IL.
- Implemented and benchmarked various state-of-the-art RL & IL algorithms in Project Athens codebase.

### **Software Engineering Intern at LinkedIn**

May 2015 - Aug. 2015

- Implemented new messaging features for LinkedIn's desktop and mobile web experience.

### **Software Engineering Intern at Yahoo**

May 2014 - Aug. 2014

- Studied user behavior and factors that affect user retention rate.