

Lei Le

CONTACT INFORMATION	Cubicle 3061W, Luddy Hall 700 N Woodlawn Ave Bloomington, IN 47408	http://leile26.github.io leile@iu.edu
RESEARCH INTERESTS	Statistical Machine Learning, particularly representation learning via regularized dictionary learning; Optimization, particularly non-convex optimization over matrix factorization; Reinforcement learning, particularly sparse coding for states and policy learning for continuous actions	
EDUCATION	Indiana University , Bloomington, IN, United States	
	Ph.D, Computer Science,	Aug 2013 to (Expected) May 2019
	<ul style="list-style-type: none">• Advisor: Martha White, Ph.D• GPA: 3.98 / 4.0• Ph.D minors: Statistical Sciences	
	Tongji University , Shanghai, China	
	Master of Management Science, Information Management and Information System,	Sep 2010 to Mar 2013
	<ul style="list-style-type: none">• GPA: 3.68 / 4.0	
	East China Normal University , Shanghai, China	
	Bachelor of Management Science, Information Management and Information System,	Sep 2006 to Jun 2010
	<ul style="list-style-type: none">• GPA: 3.75 / 4.0, rank: 1 / 48	
WORK EXPERIENCE	Software Engineering Intern for PhD Google , New York City Office Research and Machine Intelligence Group Mentor: Ariel Kleiner, Ph.D	Sep 2018 to Dec 2018
RESEARCH EXPERIENCE	Research Assistant Department of Computer Science, Indiana University Bloomington Supervisor: Martha White, Ph.D	Aug 2015 to Sep 2018
TEACHING EXPERIENCE	Associate Instructor CSCI-B554: Probabilistic Approaches to Artificial Intelligence at Indiana University Bloomington	Spring 2015
	Associate Instructor CSCI-B561: Advanced Database Concepts at Indiana University Bloomington	Fall 2014
	Associate Instructor CSCI-A110: Introduction to Computers and Computing	Spring 2014 & Fall 2013
MANUSCRIPTS	<ol style="list-style-type: none">1. Lei Le, Ajin Joseph and Martha White. Global Optimization Geometry for Induced Matrix Factorization.2. Lei Le and Martha White. Identifying Global Optimality for Dictionary Learning.	

PUBLICATIONS

1. Vincent Liu, Raksha Kumaraswam, **Lei Le**, and Martha White. The Utility of Sparse Representations for Control in Reinforcement Learning. (Accepted by AAAI 2019)
2. **Lei Le**, Andrew Patterson, and Martha White. Supervised autoencoders: Improving generalization performance with unsupervised regularizers. Advances in Neural Information Processing Systems (NeurIPS, the former NIPS), pages 107-117, 2018
3. **Lei Le**, Raksha Kumaraswamy, and Martha White. Learning sparse representations in reinforcement learning with sparse coding. In Proceedings of the Twenty-Sixth International Joint Conference on Artificial Intelligence, IJCAI-17, pages 2067–2073, 2017
4. **Lei Le**, Emilio Ferrara, and Alessandro Flammini. On predictability of rare events leveraging social media: A machine learning perspective. In Proceedings of the 3rd ACM Conference on Online Social Networks (COSN'15), Palo Alto, CA, USA, November 2015.

PRESENTATIONS

1. Learning Sparse Representations for Reinforcement Learning. AI seminar at University of Alberta, March 29, 2018

SERVICES

Reviewer for AAAI, ICML