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; 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) March 2019
- Advisor: Martha White, Ph.D

Tongji University, Shanghai, China

Master of Management Science,
Information Management and Information System,   Sep 2010 to Mar 2013

East China Normal University, Shanghai, China

Bachelor of Management Science,
Information Management and Information System,   Sep 2006 to Jun 2010

WORK EXPERIENCE

Software Engineering Intern PhD   Sep 2018 to Present
Google, New York City Office
Research and Machine Intelligence Group
Mentor: Ariel Kleiner, Ph.D

RESEARCH EXPERIENCE

Research Assistant   Aug 2015 to Sep 2018
Department of Computer Science,
Indiana University Bloomington
Supervisor: Martha White, Ph.D

TEACHING EXPERIENCE

Associate Instructor   Spring 2015
CSCI-B554: Probabilistic Approaches to Artificial Intelligence at Indiana University Bloomington
Associate Instructor   Fall 2014
CSCI-B561: Advanced Database Concepts at Indiana University Bloomington
Associate Instructor   Spring 2014 & Fall 2013
CSCI-A110: Introduction to Computers and Computing

MANUSCRIPTS

1. **Lei Le** and Martha White. Identifying global optimality for dictionary learning. In submission to Journal of Machine Learning Research (JMLR).

PUBLICATIONS

1. **Lei Le**, Andrew Patterson, and Martha White. Supervised autoencoders: Improving generalization performance with unsupervised regularizers. (Accepted by NIPS 2018)

2. **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

3. **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, IJCAI, ICML