

# Bo Liu

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## **RESEARCH INTERESTS**

Reinforcement Learning, Trustworthy AI, Neural-Symbolic AI.

## **EDUCATION**

2010 -2015   **Ph.D.**       Computer Science, University of Massachusetts Amherst  
                  Advisors: Sridhar Mahadevan (Chair), Andrew Barto, Shlomo Zilberstein, Weibo Gong  
2008 -2010   **M.S.**       Computer Engineering, Stevens Institute of Technology  
2005 -2008   **M.S.**       Control Engineering, University of Science and Technology of China

## **PROFESSIONAL EMPLOYMENT EXPERIENCES**

07/2016 - present   Assistant Professor       Auburn University, Auburn, AL  
09/2015 - 04/2016   Research Staff Member   Philips Research, Cambridge, MA

## **SUMMARY OF MAJOR RESEARCH OUTCOMES**

- Published over 15 journal and 20 conference papers, and 1 U.S. invention patent. Published in top AI journals and conference proceedings, such as JAIR(1), NIPS(3), ICML(2), IEEE-TNN(3), UAI(3), IJCAI(2), AAAI(4), AAMAS(1), ICLP(1), IEEE-TETCI(1), and ACM-TECS(1).
- Google scholar citation: over 1300, with an h-index of 18 and an h10-index of 24.
- On-going research projects include trustworthy AI, neural-symbolic AI, interpretable machine learning, and risk-aware machine learning.
- Serve as Associate Editor of IEEE Trans. on Neural Networks and Learning Systems.
- Applied research outcome in several application areas, including autonomous driving, personalized healthcare, mobile wireless systems, and swarm robotics. Collaborated with several industrial partners, including Amazon, Adobe, Google DeepMind, Facebook.

## **SUMMARY OF MAJOR TEACHING OUTCOMES**

- Developed and taught two AI courses, including Introduction to AI (teaching ratings: 5.4/6), Machine Learning (teaching ratings: 5.3/6) for both undergraduate and graduate students. Also taught Algorithm (5.5/6).
- Serve as a member to create a data science certificate program and the curriculum of data science concentration in universities.

## **SUMMARY OF MAJOR AWARDS**

- Received UAI'2015 Best Student Paper Award and NIPS'2012 Spotlight.
- Received NSF IIS Core Program Funding (\$420K), Amazon Research Award, Tencent Research Award, and Adobe Research gift money. The roles in all of these awarded proposals are single PI. I also worked as a Co-PI on an international grant from ETRI (South Korea).