Songbai Yan

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EDUCATION

Ph.D. Student in Computer Science, University of California, San Diego *Sep. 2014 - Present*
Research Area: Machine Learning
B.S. in Computer Science, Peking University, Beijing, China *Sep. 2010 - Jun. 2014*

EXPERIENCE

Graduate Student Researcher Sept. 2014 - Present
University of California, San Diego *Advisors: Kamalika Chaudhuri, Tara Javidi*
· Proposed and analysed models for active learning with abstention feedback.
· Proposed and analysed algorithms for active learning with logged observational data.

Research Intern Jun. 2017 - Sept. 2017
Microsoft Research, Redmond *Mentor: Chris Meek*
· Designed and implemented algorithms to interactively discover all classes of interest.

Software Developer Intern Jun. 2015 - Aug. 2015
Hulu, Santa Monica
· Designed and implemented several user-defined functions in Presto for cohort selection based on user temporal behavior data.
· Built a user-friendly query interface using Bootstrap, AngularJS, and Flask for the marketing team.

Undergraduate Student Researcher Nov. 2013 - May 2014
Peking University *Advisor: Liwei Wang*
· Improved accuracy of differentially private data releasing for smooth queries.
· Designed a privacy-preserving mechanism for low dimensional data description.

Summer Research Intern Jul. 2013 - Sept. 2013
University of California, Los Angeles *Mentor: Adnan Darwiche*
· Employed the Sentential Decision Diagram, a recently proposed representation scheme, for tractable bottom-up structure learning of Markov Networks.
· Presented the results in UCLA Cross-disciplinary Scholars in Science and Technology (CSST) program.

PUBLICATIONS

S. Yan, K. Chaudhuri and T. Javidi. Active Learning with Logged Bandit Feedback. NIPS 2017 "What If? What Next?" Workshop
S. Yan, C. Zhang. Revisiting Perceptron: Efficient and Label-Optimal Learning of Halfspaces. NIPS 2017
S. Yan, K. Chaudhuri and T. Javidi. Active Learning from Imperfect Labelers. NIPS 2016
S. Yan, K. Chaudhuri and T. Javidi. Active Learning from Noisy and Abstention Feedback. Allerton 2015
K. Fan, H. Zhang, **S. Yan**, L. Wang, W. Zhang, J. Feng. Learning a Generative Classifier with Label Proportions. Neurocomputing, 2014

SELECTED HONORS AND AWARDS

UCSD Fall 2014 Programming Contest, 1st place Oct. 2014
Peking University Tencent Innovative Scholarship (2 out of 150) Sept. 2012
ACM-ICPC Asia Regional Contest Dalian Site, Silver Medal (10/100 in the top programming contest in Asia) Sept. 2011

SKILLS

· Algorithm design, analysis and implementation
· Machine learning algorithms and theories
· Programming Languages: C/C++, Python, Java