Chicheng Zhang

CURRENT POSITION

Postdoctoral Researcher
Microsoft Research New York City
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EDUCATION

PhD, Computer Science
UC San Diego, La Jolla, CA, USA, 2012.9-2017.8
Advisor: Kamalika Chaudhuri
Thesis Title: Active Learning and Confidence-rated Prediction

Master of Science, Computer Science
UC San Diego, La Jolla, CA, USA, 2012.9-2015.6

Bachelor of Science, Machine Intelligence, School of EECS
Peking University, Beijing, China, 2008.9-2012.7

Second Degree Certificate, Mathematics and Applied Mathematics
Peking University, Beijing, China, 2009.9-2012.7

PUBLICATIONS

Songbai Yan and Chicheng Zhang, Revisiting Perceptron: Efficient and Label-Optimal Learning of Halfspaces. NIPS 2017.

Alina Beygelzimer, Francesco Orabona and Chicheng Zhang, Efficient Online Bandit Multiclass Learning with $\tilde{O}(\sqrt{T})$ Regret. ICML 2017.

Alina Beygelzimer, Daniel Hsu, John Langford and Chicheng Zhang, Search Improves Label for Active Learning. NIPS 2016.

Chicheng Zhang and Kamalika Chaudhuri, The Extended Littlestone's Dimension for Learning with Mistakes and Abstentions. COLT 2016.

Chicheng Zhang and Kamalika Chaudhuri, Active Learning from Weak and Strong Labelers. NIPS 2015.

Chicheng Zhang, Jimin Song, Kevin C. Chen and Kamalika Chaudhuri, Spectral Learning of Large Structured HMMs for Comparative Epigenomics. NIPS 2015.

Chicheng Zhang and Kamalika Chaudhuri, Beyond Disagreement-based Agnostic Active Learning. NIPS 2014.

WORKSHOP CONTRIBUTIONS

Chicheng Zhang and Kamalika Chaudhuri, A Potential-based Framework for Online Learning with Mistakes and Abstentions. NIPS 2016 Workshop on Reliable Machine Learning in the Wild.

Alina Beygelzimer, Daniel Hsu, John Langford and Chicheng Zhang, Search Improves Label for Active Learning. ICML 2016 Workshop on Data Efficient Machine Learning.

Chicheng Zhang and Kamalika Chaudhuri, Active Learning with Weak and Strong Labelers. ICML 2015 Active Learning Workshop.

Kamalika Chaudhuri and Chicheng Zhang, Improved Algorithms for Confidence-Rated Prediction with Error Guarantees. NIPS 2013 Workshop on Learning Faster from Easy Data.

RESEARCH EXPERIENCE

Research Assistant 2012.9-2017.8
UC San Diego, Department of Computer Science and Engineering
Supervisor: Prof. Kamalika Chaudhuri

- Active learning algorithms utilizing both weak and strong labelers
- Generic reduction from active learning to confidence-rated prediction
- Algorithms for online/batch confidence-rated prediction with error guarantees
- Spectral learning for parameter estimation in HMMs with tree-structured hidden states

Undergraduate Research Assistant 2010.6-2012.6
Peking University, Department of Machine Intelligence
Supervisor: Prof. Liwei Wang

- Proved bounds on the disagreement coefficient of the class of α-smooth decision boundary functions under smooth densities, making their upper and lower bounds match within a constant

INTERNSHIP EXPERIENCE

Research Intern 2016.6-2016.9
Yahoo! Research, New York, USA
Supervisor: Dr. Alina Beygelzimer and Dr. Francesco Orabona

- Multiclass linear classification with bandit feedback
- An efficient algorithm with $\tilde{O}(\sqrt{T})$ regret in the adversarial setting

Research Intern 2015.6-2015.9
Yahoo! Labs, New York, USA
Supervisor: Dr. Alina Beygelzimer

- Active learning with search oracle, a new type of interaction oracle
- Shown the search oracle can be helpful in active learnng for model selection

Software Testing Intern 2011.7-2011.8
MicroVu Co., Beijing, China

- Investigated rigid-body alignment algorithms: feature extraction based on curvature and template matching
- Tested the software for checking deficiencies on machine parts

TEACHING

Teaching Assistant:
CSE 151 – Introduction to Machine Learning, Spring 2015/Winter 2017, UCSD.
CSE 202 – Graduate Algorithms, Spring 2016, UCSD.
CSE 250C – Machine Learning Theory, Spring 2017, UCSD.

HONORS AND AWARDS

4th place in ACM Southern California Regional Programming Contest	2015
8th place in ACM Southern California Regional Programming Contest	2013
2nd place in UCSD Programming Contest	2013
Li Huirong Scholarship	2011
3rd Prize in Beijing Collegiate Mathematical Contest	2011
Starlight International Media Scholarship	2010
Merit Student Award	2009
3rd Prize in National Mathematics Olypiad in Province	2007

SERVICES **Reviewer**: UAI 2015-2016, NIPS 2015-2017, AISTATS 2016-2018, ICML 2016-2017, ICLR 2018, JAIR, JACM, JMLR, TCS.
Subreviewer: COLT 2014-2017, ALT 2015.

SKILLS C/C++, Java, Python, Matlab, Assembly, SQL.