Chicheng Zhang

Department of Computer Science and Engineering, UC San Diego
9500 Gilman Drive, La Jolla, CA, USA, 92093-0404
Phone Number: +1(858) 349-9171
Email: chichengzhang@ucsd.edu
Home Page: http://cseweb.ucsd.edu/~chz038

EDUCATION

PhD Candidate, Computer Science
UC San Diego, La Jolla, CA, 2012.9-Now
Research Interest: Machine Learning

Master of Science, Computer Science
UC San Diego, La Jolla, CA, 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, 2008.9-2012.7

PUBLICATIONS

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

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-Now
UC San Diego, Computer Science and Engineering Department
Supervisor: Prof. Kamalika Chaudhuri
- Active learning algorithm utilizing both weak and strong labelers
- Generic reduction from active learning to confidence-rated prediction
- Algorithm for online/batch confidence rated prediction with error guarantees
- Spectral learning for parameter recovery in HMM with tree-structured hidden states

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

- Proved bounds of disagreement coefficient for α-order smooth decision boundary functions and smooth marginal densities, making their upper and lower bound match within a constant

INTERNSHIP EXPERIENCE

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

- Multiclass linear classification with bandit feedback
- Constructed a new estimator for multiclass perceptron in bandit setting
- Shown improved mistake bounds over previous work

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

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

Software Testing Intern   2011.7-2011.8
MicroVu Co. 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, UCSD.
CSE 202 – Graduate Algorithms, Spring 2016, 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, UAI 2016, NIPS 2015, NIPS 2016, AISTATS 2016, AISTATS 2017, ICML 2016, JAIR, JACM, JMLR, TCS.
Subreviewer: COLT 2014, COLT 2015, COLT 2016, ALT 2015.

SKILLS

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