Chicheng Zhang

CURRENT POSITION

Postdoctoral Researcher
Microsoft Research New York City
641 6th Avenue, New York, NY, 10011, USA
Phone Number: (+1)858-349-9171
Email: chicheng.zhang@microsoft.com
Home Page: http://zcc1307.github.io/

EDUCATION

PhD, Computer Science
UC San Diego, La Jolla, CA, 2012.9-2017.9
Advisor: Kamalika Chaudhuri
Thesis: Active Learning and Confidence-rated Prediction

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

PREPRINTS

Chicheng Zhang, Alekh Agarwal, Hal Daumé III, John Langford, Sahand N. Negahban, Warm Contextual Bandits. Submitted.

Chicheng Zhang, Eran A. Mukamel, Kamalika Chaudhuri, Spectral Learning of Binomial HMMs for DNA Methylation Data. arXiv:1802.02498. 2018.

PUBLICATIONS

Chicheng Zhang, Efficient Active Learning of Sparse Halfspaces. COLT 2018.

Songbai Yan and Chicheng Zhang, Revisiting Perceptron: Efficient and Label-Optimal Active 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.

EXPERIENCE

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

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

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

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

Software Testing Intern 2011.7-2011.8
MicroVu Co. China

SELECTED TALKS

Efficient Online Bandit Multiclass Learning with $\tilde{O}(\sqrt{T})$ Regret
ICML 2017, Sydney August 2017
International Chinese Statisticial Association Statistics Symposium June 2018

Computationally and Statistically Efficient Active Learning of Linear Separators
New York University, Machine Learning PhD Seminar March 2018

Tutorial on Statistical Foundations of Interactive Learning June 2017
ISIT 2017, Aachen (co-presented with Kamalika Chaudhuri and Tara Javidi)

New Directions in Active Learning
Microsoft Research, New York March 2017
Google Research, New York March 2017

Confidence-based Active Learning
Yahoo! Research, New York Feburary 2017
UCSD Computational Statistics and Machine Learning Seminar May 2015

The Extended Littlestone's Dimension for Learning with Mistakes and Abstentions
COLT 2016, New York June 2016

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

Co-organizer: ICML 2017 Workshop on Picky Learners: Choosing Alternative Ways to Process Data (with Kamalika Chaudhuri, Corinna Cortes, Giulia DeSalvo, Mehryar Mohri and Ningshan Zhang).

Program Committee: AISTATS 2019.

Conference Reviewer: UAI 2015-2016, NIPS 2015-2018, AISTATS 2016-2018, ICML 2016-2018, ICLR 2018, COLT 2014-2018, ALT 2015, AAAI 2019.

Journal Reviewer: IEEE TPAMI, IEEE Transactions on Information Theory, JAIR, JACM, JMLR, TCS.

SKILLS

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