

Jianbo Chen (陈建波)

CONTACT INFORMATION

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EDUCATION

University of California, Berkeley, California, USA

Ph.D., Statistics, August, 2015–Present
Advisor : Michael I. Jordan and Martin J. Wainwright
GPA : 3.98/4.0

The University of Hong Kong, Hong Kong

B.A., Mathematics, September, 2012–June, 2015
CGPA : 4.17/4.3 Major GPA : 4.27/4.3
Honor Class : First Class Honor

University of California, Berkeley, California, USA

Exchange, Mathematics, September–December, 2013
CGPA : 4.0/4.0 Major GPA : 4.0/4.0

RESEARCH EXPERIENCE

12/17–5/18 Model Interpretation

Advisors : L. Song, Ant Financial ; M. Wainwright and M. Jordan, UC Berkeley.

- Proposed a novel framework for model interpretation.
- Designed scalable algorithms for interpreting models in language, vision, and social networks.

5/17–9/17 Language-based Image Editing

Advisors : Yelong Shen and Jianfeng Gao, Microsoft Research.

- Proposed the task of language-based image editing.
- Proposed a model for the task that captures visual and language reasoning.
- Applied the algorithm to language-based image colorization and segmentation.

3/17–9/17 False Discovery Rate Control on Directed Acyclic Graphs

Advisors : Martin Wainwright and Michael Jordan, EECS, UC Berkeley.

- Proposed an algorithm that controls FDR on directed acyclic graphs.
- Outperformed other algorithms on Gene data.

1/17–5/17 Decentralized Multiple Testing with FDR control

Advisors : Martin Wainwright and Michael Jordan, EECS, UC Berkeley.

- Proposed a novel setting for decision making on undirected graphs.
- Proposed a family of Query-Test-Exchange algorithms that control FDR.

2/17–6/17 Stochastically Controlled Stochastic Gradient Methods

Advisor : Michael Jordan, EECS, UC Berkeley.

- Proposed a variance reduction method for stochastic gradient methods.
- Outperformed ordinary stochastic gradient methods on neural network models.

5/16–9/16 Kernel Feature Selection in High Dimensions

Advisors : Martin Wainwright and Michael Jordan, EECS, UC Berkeley.

- Proposed a kernelized method for feature selection.
- Achieved state-of-the-art performance on text data and medical data.

WORKING
EXPERIENCE

5/18–8/18 Quantitative Researcher

Citadel Securities, Chicago, IL.

12/17–1/18 Research-based Software Engineer

Ant Financial, Hang Zhou, China.

9/17–12/17 GSI for CS 189/289A Introduction to Machine Learning

UC Berkeley, Berkeley, CA.

5/17–8/17 Research Intern

Microsoft Research, Redmond, WA

TECHNICAL
SKILLS

- Extensive experience with Python and TensorFlow.
- Intermediate experience with R.

SELECTED
HONORS

Mar. 2015, the Citadel Fellowship, at UC Berkeley

— Presented to an exceptional PhD graduate student in Statistics.

Mar. 2015, the Berkeley Fellowship for Graduate Study, at UC Berkeley

— Presented only to Berkeley's top admitted doctoral students for two years of study.

Aug. 2015, Ho Sin Hang Prize in Science, at the University of Hong Kong

— Presented to the best third year B.Sc. student in physical sciences.

Aug. 2014, B.Sc. Class of 1971 Prize, at the University of Hong Kong

— Presented to the best second year B.Sc. student in physical sciences.

Aug. 2013, Ho Fook Prize, at the University of Hong Kong

— Presented to the best first year B.Sc. student.

PUBLICATIONS

Jianbo Chen, Le Song, Martin Wainwright, and Michael Jordan. L-shapley and c-shapley : Efficient model interpretation for structured data. 2018 (Submitted to NIPS)

Puyudi Yang, Jianbo Chen, Cho-Jui Hsieh, Jane-Ling Wang, and Michael Jordan. Greedy attack and gumbel attack : Generating adversarial examples for discrete data, 2018 (Submitted to NIPS)

Aaditya Ramdas, Jianbo Chen, Martin J Wainwright, and Michael Jordan. Dagger : A sequential algorithm for fdr control on dags. *Biometrika*, 2018

Jianbo Chen, Le Song, Martin Wainwright, and Michael Jordan. Learning to explain : An information-theoretic perspective on model interpretation. In *ICML*, 2018 (**20-min Oral**)

Jianbo Chen, Yelong Shen, Jianfeng Gao, Jingjing Liu, and Xiaodong Liu. Language-based image editing with recurrent attentive models. *CVPR*, 2018 (**Spotlight**)

Jianbo Chen, Mitchell Stern, Martin Wainwright, and Michael Jordan. Kernel feature selection via conditional covariance minimization. In *NIPS*, 2017

Lihua Lei, Cheng Ju, Jianbo Chen, and Michael Jordan. Nonconvex finite-sum optimization via scsg methods. In *NIPS*, 2017

Aaditya Ramdas, Jianbo Chen, Martin Wainwright, and Michael Jordan. Asynchronous, robust, decentralized fdr control on undirected sensor networks. In *IEEE CDC*, 2017