

Shuang Liu

Contact Information	Department of Computer Science and Engineering University of California, San Diego 9500 Gilman Drive, EBU3B 4142 La Jolla, CA 92093	<i>E-mail:</i> s3liu@eng.ucsd.edu <i>Mobile:</i> (+1) 858-230-5110
Education	University of California, San Diego , Sept. 2016 - Present <ul style="list-style-type: none">• Ph.D student in Computer Science• Research Advisor: Hao Su Shanghai Jiao Tong University , Sept. 2012 - 2016 <ul style="list-style-type: none">• B.S. in Computer Science• Research Advisors: Karthik Sridharan, Zhihua Zhang, Xiaomin Chen	
Research Interest	My research focus is on theoretical and applied machine learning. My past research areas include: Bandit Optimization, Regularity Lemma, Online Convex Optimization, Generative Adversarial Learning, and Large-Scale Optimal Transport.	
Programming Skills	C, C++, Java, Python (Pytorch)	
Research Experience	Research Assistant , Sept. 2016 - Sept. 2018 <ul style="list-style-type: none">• Institute: University of California, San Diego• Mentor: Kamalika Chaudhuri• Topics: Machine Learning Theory, Generative Adversarial Learning, Large-Scale Optimal Transport Research Intern , Feb. 2016 - May 2016 <ul style="list-style-type: none">• Institute: Yitu Technology• Topics: Face detection and Face alignment Research Assistant , July 2015 - Dec. 2015 <ul style="list-style-type: none">• Institute: Cornell University• Mentor: Karthik Sridharan• Topics: Convex Analysis, Banach Space Geometry, Large-Scale Smooth Optimization, Online Learning, Bandit Convex Optimization, Partial Information Games Independent Research , Jan. 2015 - June 2015 <ul style="list-style-type: none">• Institute: Shanghai Jiao Tong University• Mentor: Xiaomin Chen• Topics: Szemerédi Regularity Lemma, Multi-Coloured Ramsey Numbers of Odd Cycles, Lines in Hypergraphs and Metric Spaces Research Assistant , June 2014 - June 2015 <ul style="list-style-type: none">• Institute: Shanghai Jiao Tong University• Mentor: Zhihua Zhang• Topics: Convex Optimization, Statistical Machine Learning, Stochastic Bandit Optimization, Distributed Bandit Optimization	
Publications	Postprints <ul style="list-style-type: none">• Shuang Liu, Olivier Bousquet, Kamalika Chaudhuri Approximation and Convergence Properties of Generative Adversarial Learning NIPS 2017, Spotlight Preprints <ul style="list-style-type: none">• Shuang Liu, Kamalika Chaudhuri The Inductive Bias of Restricted f-GANs• Shuang Liu, Cheng Chen, Zhihua Zhang Regret vs. Communication: Distributed Stochastic Multi-Armed Bandits and Beyond	

Teaching Experience	Teaching Assistant , Spring 2015 <ul style="list-style-type: none"> • Course: Advanced Compiler Design • Institute: Shanghai Jiao Tong University • Instructor: Yong Yu
	Teaching Assistant , Spring 2018 <ul style="list-style-type: none"> • Course: Introduction to AI: A Statistical Approach • Institute: University of California, San Diego • Instructor: Kamalika Chaudhuri
Undergraduate Projects	C Compiler implemented in Java <ul style="list-style-type: none"> • https://bitbucket.org/sadkangaroo/compiler2014
	Nachos Operating System implemented in Java <ul style="list-style-type: none"> • https://bitbucket.org/sadkangaroo/nachos2014
	Unix-like Shell implemented in C <ul style="list-style-type: none"> • https://github.com/sadkangaroo/shellproject
	Simulated GPGPU implemented in C++ <ul style="list-style-type: none"> • https://bitbucket.org/sadkangaroo/my-gpgpu-sim
	Database Back-End implemented in C <ul style="list-style-type: none"> • https://bitbucket.org/sadkangaroo/shuangliudbspring15
	Database Front-End implemented in MySQL and Java <ul style="list-style-type: none"> • https://bitbucket.org/vegetable_h/database-project
Graduate Projects	Compiler Optimization through LLVM <ul style="list-style-type: none"> • https://ucsd-pl.github.io/cse231/wi17/project.html
Awards	2018 Google PhD Fellowship (39 recipients from North America, Europe and the Middle East)
	SoCal Machine Learning Symposium 2017 - Amazon Best Poster Honorable Mention
	2015 Google Excellence Scholarship (58 Recipients in China)
	ACM International Collegiate Programming Contest, Asia Regional <ul style="list-style-type: none"> • Gold Medal in Shanghai, China, 2011 • Gold Medal in Fuzhou, China, 2011 • Gold Medal in Tianjin, China, 2012 • 4th Place in Hat Yai, Thailand, 2012 • Gold Medal in Changsha, China, 2013 • Silver Medal in Changchun, China, 2013
	National Olympiad in Informatics, China <ul style="list-style-type: none"> • Bronze Medal (National), 2011 • Gold Medal (Province), 2007, 2008, 2009, 2010