

Dalin (Darlène) Guo

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Education	University of California San Diego Ph.D. Student in Cognitive Science	La Jolla, CA Sept., 2018 - June, 2022 (<i>expected</i>)
	University of California San Diego M.S. in Intelligent System, Robotics and Control, ECE, GPA: 3.97/4.0	La Jolla, CA Sept., 2016 - June, 2018
	University of California San Diego Exchange Student, EECS, GPA: 3.94/4.0	La Jolla, CA Sept., 2015 - Mar., 2016
	Beijing Institute of Technology B.S. in Signal and Image Processing, Electrical Engineering, GPA: 90/100	Beijing, China Sept., 2012 - June, 2016
Skills	Python, Matlab, Java, C, TensorFlow, Git, Vim, LaTeX Bayesian Methods, Statistics, Stochastic Control, Computer Vision, Sparse Signal Recovery	
Publications	Guo, D , Yu, A J (2018). Why so gloomy? A Bayesian explanation of human pessimism bias in the multi-armed bandit task. <i>Advances in Neural Information Processing Systems</i> , 32 . (Scores: 8, 8, 7)	
	Harlé, K M, Guo, D , Zhang, S, Paulus, M, Yu, A J (2017). Anhedonia and anxiety underlying depressive symptomatology have distinct effects on reward-based decision-making. <i>PLoS ONE</i> 12 (10):e0186473.	
Conference Posters & Talks	Guo, D , Yu, A J (2018). Humans underestimate reward probability and overestimate environmental volatility in a multi-armed bandit task - insights from a Bayesian analysis of human learning and decision-making. <i>SfN Annual Meeting</i> , San Diego, CA, USA (Oral)	
	D. Guo , F. Meyniel, A. J. Yu (2018). Recovering human reward expectation in a bandit setting using Bayesian models. <i>CoSyNe Abstracts 2018</i> , Denver, CO, USA (<i>acceptance rate: 56%</i>)	
	D. Guo , A. J. Yu (2017). Human learning and decision-making in the multi-armed bandit task. <i>WiML Workshop</i> , Long Beach, CA, USA	
	Guo, D , Yu, A J (2017). Dependence of reward-based learning and decision-making on environmental statistics such as reward abundance and variance. <i>SfN Annual Meeting</i> , Washington D.C., USA	
Research Experience	Computational & Cognitive Neuroscience Lab, UC San Diego Graduate Student Researcher, Advisor: Angela J. Yu	La Jolla, CA Sept., 2016 - Present
	Bayesian predictive modeling of human learning and decision-making in multi-armed bandit task - Recovered and explained human irrationality of a low prior reward expectation (NIPS 18) - Compared human decision-making vs. various reinforcement learning models (WiML 17) - Investigated impaired decision-making process of depressed population via modeling (PloS 17)	
	Center for functional MRI, UC San Diego Undergraduate Research Intern, Advisor: Thomas T. Liu	La Jolla, CA July, 2015 - Mar., 2016
	- Examined various motion correction techniques, and incorporated it in fMRI pre-processing pipeline - Performed resting-state fMRI connectivity analysis within and across subjects	
Internship	IBM China Development Lab Technical Intern, PureApplication team	Beijing, China May, 2016 - Aug., 2016
- Set up Environment and installed software products on multiple virtual servers based on Ansible - Built a mock server for software Development testing based on IBM Rational Integration Tester		
Teaching Experience	COGS 118A Intro to Machine Learning, UC San Diego Teaching Assistant	La Jolla, CA Fall 2018
	- Rigorous introduction to ML, covering fundamentals and hands-on skills in supervised learning	
	COGS 118D Stats/Behavioral Data Analysis, UC San Diego Teaching Assistant	La Jolla, CA Winter 2017 & Winter 2018
	- Mathematically sophisticated course covering both classical and Bayesian statistical methods	
Awards & Fellowships	Dec., 2018 - Neural Information Processing Systems Travel Grant Dec., 2018 & 2017 - Woman in Machine Learning Travel Grant Sept., 2018-2022 - Departmental fellowship, CogSci department, UCSD March, 2018 - Cosyne Presenters Travel Grant (<i>one of 20 recipients</i>) Sept., 2017 - UCSD Graduate Student Travel Grant Sept., 2016 - Departmental fellowship, ECE department, UCSD Sept., 2013-2015 - Merit based departmental scholarship, BIT Sept., 2012 - Mizuho Scholarship	