

# Dalin (Darlene) Guo

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<b>Education</b>	<b>University of California San Diego</b> Ph.D. Student in Cognitive Science Ph.D. Student in Electrical and Computer Engineering	<b>La Jolla, CA</b> Sept., 2018 - Dec., 2021 ( <i>expected</i> ) Sept., 2016 - June, 2018
	<b>University of California San Diego</b> M.S. in Intelligent System, Robotics and Control, ECE, GPA: 3.97/4.0	<b>La Jolla, CA</b> Sept., 2016 - June, 2018
	<b>University of California San Diego</b> Exchange Student, EECS, GPA: 3.94/4.0	<b>La Jolla, CA</b> Sept., 2015 - Mar., 2016
	<b>Beijing Institute of Technology</b> B.S. in Signal and Image Processing, Electrical Engineering, GPA: 90/100	<b>Beijing, China</b> Sept., 2012 - June, 2016
<b>Skills</b>	Python, Java, C, TensorFlow, HTML, Javascript, Git, LaTeX, Machine Learning, Reinforcement Learning, Deep Learning, Bayesian Methods, Statistics	
<b>Publications</b>	<b>Guo, D</b> , Yu, AJ (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> , <b>32</b> . (Scores: 8, 8, 7)	
	Harlé, K M, <b>Guo, D</b> , Zhang, S, Paulus, M, Yu, AJ (2017). Anhedonia and anxiety underlying depressive symptomatology have distinct effects on reward-based decision-making. <i>PLoS ONE</i> <b>12</b> (10):e0186473.	
<b>Conference Posters &amp; Talks</b>	<b>Guo, D</b> , Ktena, SI, Huszar, F, Shi, W, Tejani, A (2019). Deep Bayesian Bandits for Online Personalized Recommendations. <i>Women in Machine Learning Workshop</i> , Vancouver, CA	
	<b>Guo, D</b> , Yu, AJ (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 ( <b>Oral</b> )	
	<b>Guo, D</b> , Meyniel F., Yu. AJ (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> )	
	<b>Guo, D</b> , Yu, AJ (2017). Human learning and decision-making in the multi-armed bandit task. <i>Women in Machine Learning Workshop</i> , Long Beach, CA, USA	
<b>Research Experience</b>	<b>Computational &amp; Cognitive Neuroscience Lab, UC San Diego</b> Graduate Student Researcher, Advisor: Angela J. Yu	<b>La Jolla, CA</b> 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)	
	<b>Center for functional MRI, UC San Diego</b> Undergraduate Research Intern, Advisor: Thomas T. Liu	<b>La Jolla, CA</b> July, 2015 - Mar., 2016
	- Examined various motion correction techniques, and incorporated into a fMRI pre-processing pipeline - Performed resting-state fMRI connectivity analysis within and across subjects	
<b>Internship</b>	<b>Facebook Feed and Story Relevance</b> Software Engineer, Machine Learning	<b>Menlo Park, CA</b> July, 2020 - Sept., 2020
	<b>Twitter Cortex</b> Machine Learning Researcher Intern	<b>London, UK</b> June, 2019 - Sept., 2019
	- Simulated multiple Deep reinforcement learning algorithms for contextual bandits for ads display - implemented the best model, which achieved better performance in online AB test	
	<b>IBM China Development Lab</b> Technical Intern, PureApplication team	<b>Beijing, China</b> 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	
	<b>COGS 118A Intro to Machine Learning, UC San Diego</b> Teaching Assistant	<b>La Jolla, CA</b> Fall 2018
<b>Teaching Experience</b>	- Rigorous introduction to ML, covering fundamentals and hands-on skills in supervised learning	
	<b>COGS 118D Stats/Behavioral Data Analysis, UC San Diego</b> Teaching Assistant	<b>La Jolla, CA</b> Winter 2017 & Winter 2018
	- Mathematically sophisticated course covering both classical and Bayesian statistical methods	