

Dalin (Darlene) Guo

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Education	University of California San Diego Ph.D. Student in Cognitive Science Ph.D. Student in Electrical and Computer Engineering	La Jolla, CA Sept., 2018 - Dec., 2021 (<i>expected</i>) Sept., 2016 - July, 2018
	University of California San Diego M.S. in Intelligent System, Robotics and Control, ECE, GPA: 3.9/4.0	La Jolla, CA Sept., 2016 - June, 2018
	University of California San Diego Exchange Student, EECS, GPA: 3.9/4.0	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, Java, TensorFlow, HTML, Javascript, SQL, Git, LaTeX Machine Learning, Reinforcement Learning, Deep Learning, Bayesian Methods, Statistics	
Publications	Guo, D , Ktena, S, Myana, P, Huszar, F, Shi, W, Tejani, A (2020). Deep Bayesian Bandits: Exploring in Online Personalized Recommendations. <i>RecSys</i> . (<i>acceptance rate: 20%, scores: 3,4,5</i>)	
	Guo, D , Yu, AJ (2018). Why so gloomy? A Bayesian explanation of human pessimism bias in the multi-armed bandit task. <i>NeurIPS</i> . (<i>acceptance rate: 20%, scores: 8, 8, 7</i>)	
	Harlé, K M, Guo, D , 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> 12(10):e0186473.	
Industry Experience	Facebook, Feed and Story Content Recommendation team Software Engineer Intern, Machine Learning	Menlo Park, CA July, 2020 - Sept., 2020
	- Implemented a backend service to recommend exploratory items based on similarity models - Researched on incorporating reinforcement learning techniques into current production system	
	Twitter, Cortex Applied Machine Learning team Machine Learning Researcher Intern	London, UK June, 2019 - Sept., 2019
	- Simulated multiple Deep reinforcement learning algorithms of contextual bandits for ads display - implemented the best model, which also achieved a better performance in online AB test (RecSys 20)	
Research Experience	IBM China Development Lab, PureApplication team Technical Intern	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	
	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 tasks - Investigated different uncertainty-driven computational factors for human exploratory behaviors - Recovered and explained human irrationality of a low prior reward expectation (NeurIPS 18) - Compared human decision-making vs. various reinforcement learning models - Investigated impaired decision-making process of depressed population via modeling (PloS 17)	
Teaching Experience	Center for functional MRI, UC San Diego Undergraduate Research Intern, Advisor: Thomas T. Liu	La Jolla, CA July, 2015 - Mar., 2016
	- Experimented various motion correction techniques in a fMRI pre-processing pipeline - Performed resting-state fMRI connectivity analysis within and across subjects	
	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	