

Dalin (Darlène) 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 - June, 2021 (<i>expected</i>) Sept., 2016 - June, 2018 |
| | 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, 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> , 32 . (Scores: 8, 8, 7) | |
| | 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. | |
| Conference Posters & Talks | Guo, D , 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 (Oral) | |
| | Guo, D , 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>) | |
| | Guo, D , 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 | |
| | Guo, D , Yu, AJ (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 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) | La Jolla, CA Sept., 2016 - Present |
| | Center for functional MRI, UC San Diego Undergraduate Research Intern, Advisor: Thomas T. Liu - Examined various motion correction techniques, and incorporated into a fMRI pre-processing pipeline - Performed resting-state fMRI connectivity analysis within and across subjects | La Jolla, CA July, 2015 - Mar., 2016 |
| Internship | Twitter Cortex Machine Learning Researcher Intern | London, UK June, 2019 - Sept., 2019 |
| | IBM China Development Lab Technical Intern, PureApplication team - 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 | Beijing, China May, 2016 - Aug., 2016 |
| Teaching Experience | COGS 118A Intro to Machine Learning, UC San Diego Teaching Assistant - Rigorous introduction to ML, covering fundamentals and hands-on skills in supervised learning | La Jolla, CA Fall 2018 |
| | COGS 118D Stats/Behavioral Data Analysis, UC San Diego Teaching Assistant - Mathematically sophisticated course covering both classical and Bayesian statistical methods | La Jolla, CA Winter 2017 & Winter 2018 |
| | COGS 178 Genes, Brains, and Behavior, UC San Diego Teaching Assistant - Methods for investigating genotype to phenotype mapping | La Jolla, CA Spring 2019 |