

Dalin (Darlene) Guo

SSRB 248, 9500 Gilman Dr., La Jolla, CA, 92093
(858)-405-0315, dag082@ucsd.edu, dalinguo.github.io

| | | |
|---------------------------------------|--|---|
| 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, Java, C, TensorFlow, HTML, Javascript, Git, LaTeX, Machine Learning, Reinforcement Learning, Deep Learning, Bayesian Methods, Statistics | |
| 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 , 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 | |
| | 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 | |
| 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 into a fMRI pre-processing pipeline - Performed resting-state fMRI connectivity analysis within and across subjects | |
| Internship | Facebook Feed and Story Relevance Software Engineer, Machine Learning | Menlo Park, CA July, 2020 - Sept., 2020 |
| | Twitter Cortex Machine Learning Researcher Intern | London, UK 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 | |
| | IBM China Development Lab Technical Intern, PureApplication team | Beijing, China May, 2016 - Aug., 2016 |
| Teaching Experience | - 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 | |
| | 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 | |