

JIZHENG DONG

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EDUCATION

Department of Mathematics, Nanjing University
Major in Information and Computational Science

Sep 2016 - Jun 2020(expected)

RESEARCH INTEREST

Computational Neuroscience

Work Memory, Synaptic Plasticity, Neuron Spiking

RESEARCH EXPERIENCE

Institute of Brain and Cognitive Science, NYU Shanghai
Research Intern, supervised by Prof Sukbin Lim

Jul 2019 - Sep 2019
Shanghai, China

- Using computational method to infer synaptic plasticity learning rule.

Undergraduate Innovation Project, Nanjing University
Group Leader, Supervised by Prof Jun Wang

Sep 2018 - Jan 2019
Nanjing, China

- Processed the protein data.
- Predicted the structure of protein using recurrent neural network.

Institutes of Brain Science, Fudan University
Research Intern, supervised by Prof Jiayi Zhang

Jul 2018 - Aug 2018
Shanghai, China

- Developed experimental device to record the behavior of rodent automatically.
- Analyzed the correlation of mice chewing behavior and the vision under peer influence.
- Processed images of neurons to count the dyed neurons effectively.

HONORS AND AWARDS

The National Basic Subject Top-notch Talent Scholarship
The People's Scholarship in China

SKILLS AND HOBBIES

Programming	MATLAB, R, Python, C++
CS	Digital Image Processing, SQL, Deep Learning
Leadership	Vice-Chairmen of NJU Leadership Club
Sports	Archery, Marathon

RELEVANT COURSES

Biology & Neuroscience	Introduction to Neuroscience, Cell Biology
Statistic	Mathematical Statistics, Biostatistics, Multivariate Statistical, Probability Theory Analysis
Applied Mathematics	Numerical Methods and Experiments, Partial Differential Equations, Numerical Methods of PDE