

Gengshuo TIAN

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EDUCATION

- 2015 - present BSc Candidate in MATHEMATICS AND APPLIED MATHEMATICS, **Beijing Normal University**
GPA: 96.02 / 100, ranked 1 / 52
- APR-JUN 2018 Exchange Program at **University of California, San Diego**
GPA: 4.00 / 4.00
- JUL 2017 Summer School in Computational and Applied Mathematics at **Peking University**
Outstanding student
- JUL-AUG 2016 Summer Sessions at **College of William and Mary**
GPA: 4.00 / 4.00

EXPERIENCE

- Current*
SEP 2018 Undergraduate research in NEURAL INFORMATION PROCESSING LAB
at Peking University
Instructor: Si Wu
Collaborating with Prof. Yuchao Yang's group on neuromorphic computing with memristors. Also conducting theoretical analysis of a model of balanced orientation selectivity formation in V1 during critical period based on BCM theory with lateral inhibition.
- AUG 2018 Volunteering in COMPUTATIONAL NEUROBIOLOGY LABORATORY
JUN 2018 at Salk Institute
Instructor: Terrence Sejnowski
Worked with Dr. Dongsung Huh to analyze the mechanisms of a spiking neural network trained with gradient descent to do the XOR task. Various techniques including tensor component analysis (TCA) were employed.
- MAR 2018 Undergraduate research in NEURAL INFORMATION PROCESSING LAB
SEP 2017 at Beijing Normal University
Instructor: Si Wu
Participated in the theoretical analysis of a new model of hierarchical memory retrieval with feedback modulation in hierarchical neural networks. The work was based on Hopfield networks but the underlying principles are potentially applicable to other kinds of networks in general.
- JUN 2018 NATIONAL TRAINING PROGRAM OF INNOVATION AND ENTREPRENEURSHIP
JUN 2017 FOR UNDERGRADUATES
Instructor: Jingang Xiong
Studied the asymptotically symmetric solutions of a class of quasilinear elliptic equations through analysis of the corresponding ODE.
- NOV 2017 INTERNATIONAL GENETICALLY ENGINEERED MACHINE COMPETITION (iGEM)
APR 2017 (Team BNU-China)
Developed mathematical models to assist the team's effort to display fibrous biopolymers on the yeast surface. Modeling work highly regarded by the judges.

SKILLS

- Language TOEFL iBT: 118 / 120
GRE: Verbal 165 / 170, Quantitative 170 / 170, Analytical Writing 4.5 / 6.0
- Programming MATLAB