Gengshuo TIAN

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EDUCATION

2015 - present BSc Candidate in Mathematics and Applied Mathematics, Beijing Normal University

GPA: 97.85 / 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.
Aug 2018 Jun 2018	Volunteering in COMPUTATIONAL NEUROBIOLOGY LABORATORY 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 SEP 2017	Undergraduate research in Neural Information Processing Lab 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 Jun 2017	NATIONAL TRAINING PROGRAM OF INNOVATION AND ENTREPRENEURSHIP FOR UNDERGRADUATES Instructor: Jingang Xiong Studied the asymptotically symmetric solutions of a class of quasilinear elliptic equations.

SKILLS

Nov 2017 Apr 2017

Language TOEFL iBT: 118 / 120

(Team BNU-China)

Modeling work highly regarded by the judges.

GRE: Verbal 165 / 170, Quantitative 170 / 170, Analytical Writing 4.5 / 6.0

Developed mathematical models to assist the team's effort to display fibrous biopolymers on the yeast surface.

INTERNATIONAL GENETICALLY ENGINEERED MACHINE COMPETITION (iGEM)

Programming MATLAB