Qingyao Sun

EDUCATION East China Normal University (ECNU), Shanghai, China	09/2016-06/2020
Major: StatisticsCGPA: 3.86/4.0Major GPA: 3.96/4.0Awards & Scholarhips:ECNU Special Talent Alumni Scholarship (5/1000+), 11/2019; Nat09/2018; National Scholarship (2/137), 09/2017; SMBC Global Foundation Scholarship (1/137)	
University of California-Berkeley (UCB) , CA, USA Berkeley International Study Program	08/2018-12/2018 GPA: 4.0/4.0
ACADEMIC EXPERIENCE	
 Behavior Analysis from Images and Videos, University of Alberta, Canada Conducted an extensive literature review on pose transfer and reproduced previous works Implementing cutting-edge pose transfer algorithm with PyTorch 	01/2020-04/2020
 Indeterministic Variants of Two Problems of Information Theory, ECNU, China Identified a close relation between answers to two open problems proposed by Erdős et al. Conducting numerical simulation with the Z3 theorem prover 	12/2019-Present
 Extension to the MDI-oob Feature Importance Measure, ECNU, China Investigated the performance of a linear model on top of ensemble learning methods Extended the MDI-oob criterion to XGBoost, and distinctly improved the accuracy of noisy for the accura	10/2019-Present feature identification
 Teaching Assistant for Advanced Algebra, ECNU, China Graded students' assignment biweekly and vountarily participated in regular online Q&A sestional content of the sector of the s	09/2019-Present sions
 Enhancement for Iterative Ramdon Forest (iRF) Cont'd, ECNU, China Created the R package tree.interpreter with Rcpp, implementing the MDI-oob algorithm, Incorperated MDI-oob into the iRF package with tree.interpreter, resulting in higher rest 	
 Enhancement for Iterative Ramdon Forest (iRF), LBNL, USA Documented the iRF algorithm, which has evolved quite a lot since the publication of the original Halved the running time of the iRF package with various optimization techniques Fixed various bugs, including a race condition, granting reproducibility to the iRF package Added unit tests, improved code structure and documentation in general, and flagged potential 	
 Variance of Average Depth of the 1-2 Branching Process, ECNU, China Conducted simulation study with R and C++ on Alibaba Cloud, guiding theoretical analysis Proposed and utilized a niche pseudorandom number generator for the binomial distribution 	03/2019-05/2019
 Developer, Code Review Functionality to OKPY, UCB, USA Established an extension to okpy.org, the course platform of a CS course at UC Berkeley, allo code review for each other and make suggestions after an assignment is due 	11/2018 owing students to perform
 Leader & Developer, <i>Kernod</i>, Community-powered Q&A Site, Shanghai, China Established Kernod, A vertical Q&A community for science and engineering majors Developed and maintained the Kernod website based on the cloud application platform of He 	03 /2018-03/2019 eroku
COMPETITIONS	
First Place Winner in the CS 61B Amazons AI Tournament (1/172) Second Place Winner in the CS 61A Scheme Art Contest (2/38)	12/2018 12/2018

Meritorious Winner in Mathematical Contest In Modeling (top 10%)

ADDITIONALS

 Tech Stack: Python, R, C/C++, MATLAB, Java, SQL, Linux/Unix, Assembly (x86_64 and RISC-V), and Verilog

 GitHub Profile: https://github.com/nalzok

 Stack Overflow Profile: https://stackoverflow.com/users/5399734

 Voluntary Activities: Stray Animal Caretaking Volunteer, 09/2019-Present; Shanghai Natural History Museum Volunteer, 09/2017; Huadong Hospital Affiliated to Fudan University Volunteer, 07/2016

 Personal Interests: Electronics, particularly FPGA; Photography; Roguelike games

04/2018