

YI CUI

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EDUCATION

Fudan University

May 2017 - August 2020

Bachelor of Arts, School of Economics. **Track:** Economics

Minor in Data Science, School of Computer Science and Engineering

Core Courses: Mathematical Analysis (A), Linear Algebra (A), Probability Theory and Mathematical Statistics (A), Quantitative Economics (A), Labor Economics (A), Economic History of China (A)

University of California, Los Angeles

September 2017 - December 2017

Exchange Student, Mechanical and Aerospace Engineering

UCEAP Exchange Program, Tuition Waiver, Santander Scholarship(Top 10%)

Fudan University

August 2015 - May 2017

Bachelor of Science, Department of Aeronautics and Astronautics. **Track:** Theory and Applied Mechanics

RESEARCH PUBLICATION/PATENTS

Yi Cui *A Health Detector based on Mobile Intelligent Terminal*

November 2018

National Patent-S, First Inventor

Application Number/Patent Number: 201821803958.4

Yi Cui *A Health Detector based on Mobile Intelligent Terminal and Detection Method*

November 2018

National Patent-F, First Inventor

Application Number/Patent Number: 201811304193.4

RESEARCH/TRAININGS

Research Assistant, Fudan University

September 2018 - Present

Microeconomic Theory, Behavior Economics, Dynamic Hedging

- Advisor: **Xiao Wei**, Department of Economics, Fudan University
- A Behavioral Economics Project in collaboration with Jingyan Zhang.
- Weekly Talk with Prof. Xiao and Making the Presentation quarterly.
- This thesis uses the Kreps-Porteus model based on the expected utility function model to conduct in-depth research on the dynamic hedging phenomenon.

Research Assistant, University of California, Los Angeles

September 2017 - July 2018

Reinforcement Learning, Convex Optimization, Primal-Dual Algorithm

- Advisor: **Wotao Yin**, Department of Mathematics, UCLA.
- An Algorithm Advancement Project in collaboration with PhD student Fei Feng, UCLA.
- Weekly Talk with Prof. Yin and Making the Presentation on Math 290, 2017.
- Sequential Markov Decision Process and related Optimization Problems.
- Solving the Primal Dual Algorithm and Narrowing the Duality Gap.

Research Assistant, Fudan University

December 2016 - July 2018

A Health Detector based on Mobile Intelligent Terminal

- Advisor: **Shuyu Zhang**, School of Information Science and Engineering, Fudan University
- Two National Patents, First Inventor.
- Tengfei Cup Award(Rank 1), XiYuan Scholar(Program Number:17441, Outstanding).
- Weekly Talk with Prof. Shuyu and Making the Presentation quarterly.
- Combining light emitting module, the light receiving module, the light processing module and the data analysis application software to realize the health detecting function.

- Advisor: **Yun Ding**, General Elective Course, Fudan University
- The Way To Success CareerLeadership Development Program Leader.
- Outstanding Students in this course during September 2016 - December 2016.
- In charge of the propaganda and appraisal of all practice projects in departments.

PROJECTS

Mathematical Modeling and Analysis, MCM

January 2018

Project of American Mathematical Modeling Contest

- The main target within this paper is to model change of language speakers of first order (native), second order (or more) and in total.
- [Paper of MCM Contest](#)

Calibration of an Accelerometer Using GPS Measurements

September 2017 - December 2017

Major Project as a part of curriculum

- A Course Final Project, UCLA
- C271A - Probability and Stochastic Processes in Dynamical Systems, Graduate Level
- Designed and performed an analysis of calibration of an accelerometer.
- Optimization in terms of design and simulation of the algorithm.
- [Paper of Project, UCLA](#)

GithubEye: A Social-network-based Search Engine for Github

September 2016

A Competition Project in HACKFDU

- A content search service named GithubEye to help people find Github repos.
- Type your Github user name and your natural language description of what you are looking for.
- Our service returns you the sorted repo list based on your social relationship in github.
- [Our Contributor List](#)

POSITION OF RESPONSIBILITY

Vice-President of the Academic Department

August 2016 - September 2018

Tengfei Department, Fudan University

- Coordinated team members, had a good arrangement, completed the final academic project.

SKILLS AND INTERESTS

Interests	Design, Automobile, CAD/CAE, Finite Element Analysis, Robotics, Optimization, Modeling and Simulation, Game Theory, Behavior Economics
Design Software	AUTOCAD, Stata, R, Eviews, Model Analysis Python, MATLAB, C, C++, SQL

HONOR

- **Second Prize** of National College Students Mathematical Modeling Contest
Higher Education Cup, National Mathematics Association October 2018
- **Santander Scholarship**, China Scholarship Council April 2018
- **Third Prize Scholarship** of Joel&Ruth Spira, Fudan University April 2017
- **First Prize Scholarship**, Fudan University November 2016
- **Outstanding Student**, Fudan University February 2016