Yucheng Guo

(609) 356-4538 // yucheng.guo@princeton.edu // https://yuchengguogit.github.io/

EDUCATION

PRINCETON UNIVERSITY

Princeton, NJ

Ph.D. Candidate in Operations Research & Financial Engineering, GPA: 4.00/4.00

Expected 05/26

- Research Direction: Probabilistic approaches to PDE problems with free boundary.
- Courses: Statistical Theory for Data Science, Optimization, Stochastic Calculus, Stochastic Control.

FUDAN UNIVERSITY

Shanghai, China

B.S. in Mathematics, GPA: 3.85/4.00, Major GPA: 4.00/4.00

Conferred 06/21

- Bu-chin Su honor class.
- Exchange Experience: University of Chicago, Department of Mathematics, 09/19 12/19.

PROFESSIONAL EXPERIENCE

DYNAMIC TECHNOLOGY LAB

Shanghai, China

Quantitative Researcher Intern

01/21 - 05/21

- Assisted in factor analysis and alpha mining based on mid-frequency equity data.
- Researched in the literature on statistical arbitrage models.
- Programmed trading strategies and conducted back-tests using Python and C++.

HUAWEI TECHNOLOGIES

Shanghai, China

Theoretical Researcher Intern, 2012 Lab

07/20 - 10/20

- Researched and made presentations on image-video processing and computer vision.
- Assisted in algorithm design for video compression, combining classical methods, compressed sensing and machine learning.
- Programmed and tested the algorithms on real camera video datasets using Python.

ACADEMIC EXPERIENCE

Research Projects:

- Stefan problem with surface tension: uniqueness of physical solutions under radial symmetry. Accepted by Archive for Rational Mechanics and Analysis.
- Cascade equation for physical jumps of Stefan problem in general dimensions and its probabilistic solution. Work in progress.

Services and Activities:

- Referee for Annals of Applied Probability.
- Talks given at IMSI (Chicago), UCSD, Princeton.

SELECTED AWARDS

Bronzes in Analysis and in Probability at 11th ST. Yau College Student Mathematics Contests	10/20
National Scholarship: Top 1%, Selected by Fudan University	09/19
Second Prize in Final at 9th Chinese College Mathematics Competitions	05/18

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, C/C++, R

Certification: Deep Learning Specialization on Coursera

Languages: English (fluent), Mandarin Chinese (native), Spanish (beginner)