

Wanqi Zhu

Stanford 2021 | wanqizhu@stanford.edu
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EDUCATION

STANFORD UNIVERSITY
COMPUTER SCIENCE, THEORY
TRACK
2017 - 2021

COURSEWORK

Parallel Programming
Computer Networking
Advanced Data Structures
Randomized Algorithms
Principles in Computer Systems
Operating Systems
Compilers
Research Topics in Cryptography
Deep Learning

PROJECTS

FIGGIE.IO A MULTIPLAYER
ONLINE PLATFORM FOR THE
MARKET MAKING GAME FIGGIE.

PYFUCK AN ORIGINAL ESOTERIC
PROGRAMMING LANGUAGE.
INSPIRED BY JSFUCK.

HLTEX A CUSTOM SCRIPTING
LANGUAGE ON TOP OF L^AT_EX,
SUPPORTING INLINE MATPLOTLIB
FIGURES AND PYTHON SCRIPTING.

COINTK A BITCOIN TRADING
BACKTESTING & ANALYSIS
TOOLKIT. HACKILLINOIS WINNER.

MTG ENGINE A PYTHON GAME
ENGINE FOR THE
TURING-COMPLETE RULES OF
MAGIC THE GATHERING.

SKILLS

>5000 lines:
Python • C++ •
numpy/pandas/matplotlib

>1000 lines:
C • OCaml • Ruby on Rails •
tensorflow • pytorch

EXPERIENCE

JANE STREET | QUANTITATIVE RESEARCH
Sept 2021 - Present | New York, NY

LYFT | ECONOMIST INTERN

Jun - Aug 2020 | San Francisco, CA

- Applied **Two Stage Least Squares (2SLS)**, **Quantile Regression** and **XGBoost (ML)** to analyze millions of ride data, teasing out casual relationships.
- Proposed two improvements** in elasticity estimation, a key component in the ride pricing model, and validated my hypotheses using historical data.

JANE STREET | QUANTITATIVE RESEARCH INTERN
Jun - Aug 2019 | New York, NY

IMPROBABLE | SOFTWARE ENGINEERING INTERN

Jun - Sep 2018 | London, UK

- Built >2000 lines custom C++ networking code on top of **Unreal Engine 4**, enabling **multi-server AI** and **player transitions**.

AURA HEALTH | MACHINE LEARNING INTERN

Feb - Jun 2018 | San Francisco, CA

- Built a data analytics pipeline and deployed a **SVD recommendation engine**.

TREECTF | LEAD ORGANIZER

Oct 2017 - Feb 2018 | Stanford, CA

- Designed and built Stanford's **first Capture the Flag** cybersecurity competition.
- Led a team** of four to run the competition with 27 problems and 10+ teams.

WILLOWFLARE | Co-FOUNDER AND CTO

2015 - 2017 | Chicago, IL

- Built an **end-to-end webapp** in Ruby on Rails with **thousands of users**.
- Won **\$10000** in UChicago Booth's New Venture Challenge.

UCHICAGO CS MASTERS

TREEHACKS

STANFORD ACM

STANFORD INTRO CS

TA & GRADER

ORGANIZER

SOCIAL CHAIR

SECTION LEADER

2015-18

2018

2019

2018-19

RESEARCH

STANFORD THEORY GROUP Spring 2019 | Stanford, CA

Worked with **Aviad Rubinstein** to implement and scale the **Competitive Equilibrium with Approximate Equal Incomes** algorithm, used at Wharton business school.

UCHICAGO COMPUTATION INSTITUTE Summer 2016 | Chicago, IL

Developed machine learning algorithms for topic labeling and author disambiguation.

PUBLICATIONS

- [1] X. H. Yang, W. Zhu, et al. Systematic computation with functional gene-sets among leukemic and hematopoietic stem cells reveals a favorable prognostic signature for acute myeloid leukemia. *BMC Bioinformatics*, 2015.