

ZESSEN ZHUANG

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EDUCATION

Duke Kunshan University 2019.09-2023.05

- Data Science Bachelor
- GPA 3.83/4.00

HONORS AND AWARDS

Duke Kunshan University Quarter Admission Scholarship 2019.05

- 170,000 RMB, equivalent to quarter tuition fee.

CUMCM National 2nd Prize 2021.07

- “Optimization Scheme for Material Distribution of Assembly Line in Automotive Manufacturing Plant”

DKU Dean's List (Outstanding Students of the Semester) 2021.07

- 2020 Spring Dean's List
- 2021 Fall Dean's List

ACADEMIC ACHIEVEMENTS

Book Chapter

Tian, X. (Michelle), **Zhuang, Z.**, & Zhang, L. (Sunshine). (2022). Chapter 6 The Phonebook. In *Innovate on the Internet Computer (1st ed.)*. <https://doi.org/10.21428/bfffc129.db13dd8d>

Book Contribution

Contribute to Chapter 1, 2, 3, and 4 in Zhang, Luyao (Sunshine). 2022. *Innovate on the Internet Computer*. PubPub. <https://doi.org/10.21428/bfffc129.db13dd8d>.

Medium Publication

Zhuang, Z. (2022, February 13). Decipher Developer Grants. Retrieved February 14, 2022, from SciEcon-Innovate website: <https://medium.com/sciecon-innovate/decipher-developer-grants-95f6c7283d13>

Tian, X., & **Zhuang, Z.** (2021, November 30). A Glance into the Metaverse. Retrieved from SciEcon-Research website: <https://medium.com/sciecon-research/a-glance-into-the-metaverse-80004e9e1d1>

EXPERIENCE

SciEcon CIC, NPO 2021.07-Present

- Location of the Organization: London, UK
- Position: Interim Chair of Technology Development, SciEcon Inaugural e-board
- Conduct multiple AMA (Ask Me Anything) events, interviewing professionals and professors from outstanding universities and industry. Example:
 - Interviewing Prof. Fan Zhang: <https://medium.com/sciecon-ama/on-the-mechanics-of-blockchain-security-5375a7ea2c43>
 - Interviewing Prof. Ye Li: <https://medium.com/sciecon-ama/tokenomics-when-macro-and-micro-economics-unite-in-finance-97d8096c3ad4>
- Provide various computer technology solutions to other SciEcon members, such as the development of related tools, writing guides for the use of various software/platforms, etc.
- Host for Symposiums: Decentralized Finance: Cryptocurrency and Blockchain on the Internet Computer (Duke CS+ & SciEcon)

DKU Innovate and Entrepreneurship 2020.10-2020.12

- Position: Full-Stack Engineer
- Design and develop a online management system for students' innovation and entrepreneurship projects.

PROJECTS

CryptoEnv

2022.01-Present

- On-going Academic Project
- A Python library for research in cryptocurrency marked by agent-based methods and reinforcement learning algorithms.
- GitHub repository: <https://github.com/Crinstaniev/cryptoEnv>

Staking Mechanism Design: Ethereum 2.0 for Good

2021.02-Present

- On-going Academic Project
- Accepted by Ethereum Foundation (\$ 50,000 Grant)
- Validation and improvement of the mechanism of Ether 2.0 using a game theory framework and reinforcement learning agents.

IC-Phonebook

2021.08-2021.09

- A fully decentralized phonebook app supported by the Internet Computer
- Implemented by *Motoko* and *Vue.JS*
- GitHub Repository: <https://github.com/Crinstaniev/phonebook-ic>

RELATED COURSES

STATS 101: Introduction to Applied Statistical Methods	Duke Kunshan Univeristy
COMPSCI 201: Introduction to Programming and Data Structure	Duke Kunshan University
STATS 102: Introduction to Data Science	Duke Kunshan University
COMPSCI 301: Algorithms and Databases	Duke Kunshan University
STATS 210: Probability, Random Variables and Stochastic Processes	Duke Kunshan University
COMPSCI 201: Discrete Math for Computer Science	Duke Kunshan University
MATH 304: Numerical Analysis and Optimization	Duke Kunshan University
MATH 305: Advanced Linear Algebra	Duke Kunshan University
STATS 302: Principal of Machine Learning	Duke Kunshan University
YSC 2227: C: A Language for Science and Engineering	Yale-NUS Collage
YSC 3217: Programming Operating Systems, Interfaces & eXtras	Yale-NUS Collage
YSC 4227: Computer Vision and Deep Learning	Yale-NUS Collage