

CHENGLIN ZHANG

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Education

Duke Kunshan University (DKU)

Undergraduate, Class of 2023

B.S. in Data Science (by Duke Kunshan)

B.S. in Interdisciplinary Studies (Sub plan: Data Science) (by Duke)

Duke University

Study Abroad Program (non-degree)

Current Cumulative GPA: 3.85/4.00 **Major GPA:** 4.00/4.00

Coursework: Statistical Machine Learning, Mathematical Modeling, ODE, Algorithms and Databases, Cloud Computing, Numerical Analysis and Optimization, Probability, Statistics and Stochastic Process, Data Acquisition & Visualization, Economic Principles, International Political Economy, Contemporary Political Ideologies.

Skills: math modeling & data-driven modeling, statistical analysis, programming, data acquisition & visualization. Knowledge with: DevOps, big data paradigms, web development, experience management.

Kunshan, China

Aug. 2019 - May 2023

Durham, NC, US

Aug. 2022 – Dec. 2022

Working Experience

Robert Bosch GmbH

Strategic Intern (Bosch Powertrain Systems, Technology Functions Dept.)

- Participate in the development of the company's digital twin project (an Industry 4.0 platform for industrial equipment). Responsible for the front-end/back-end design of the data dashboard and the workflow. Tech: Node-RED, JavaScript, SQL.
- Employed machine learning models for anomaly detection, performed 24-7 real-time prediction on the dashboard (ongoing).

June. 2022-Aug. 2022

Wuxi, China

DKU Academic Resource Center (ARC)

DKU ARC Peer Tutor (COMPSCI 101, COMPSCI 201, COMPSCI 301, INFOSCI 206)

- Assisted DKU undergraduate students' learning in the computer and information science courses. Hold tutoring sessions & office hours for students' course material/assignment questions. Received 100% satisfaction rate from tutees' feedback.
- Received CRLA Level I International Tutor Training Program Certification (ITTPC).

Aug. 2021-May 2022

Kunshan, China

Shenrui Bio Pharmaceuticals Co., Ltd.

Bio information Intern

- Processed GB-level data on the company's server related to lab experiment results, gene sequence, and patient data. Evaluated and visualized the data with different statistical methods. Tech: Linux, Python, R.

May 2020-July 2020

Wuxi, China

Projects & Research

Carbon Storage Estimation in Chinese Urban Area Using Multi-Source Imagery and Deep Learning (2021 DKU Summer Research Scholars)

- Proposed a method that employs DNN to analyze Chinese cities' municipal greening situations, particularly from the perspective of street panoramas and image segmentation. Tech: ArcGIS, Python, scrawling methods, TensorFlow.
- Scholarly presentation: Chenglin Zhang (2021), Carbon Storage Estimation in Chinese Urban Area Using Multi-Source Imagery and Deep Learning, Abstract [IN15B-01] presented at 2021 Fall Meeting, AGU, Online, 13-17 Dec.

May 2021-Dec.2021

Digital Tools for Cancer Control Equity in China (2022-2023 Duke University Bass Connections)

- (on-going) Seek to design and develop an interactive, participatory, and evolving website that presents a comprehensive picture of cancer burden, disparities, and practices in China to aid cancer prevention and control advocacy and research.
- Tech: crawling methods, data analysis and visualization tools, GIS, and web-based tools.

July 2022-Present

Investigating Food Consumption Pattern Changes: Lens from China 2022 Lock-down (Collaboration with Wuhan University, ongoing)

- Designed and digitized questionnaires that aim at investigating changes in Chinese urban citizens' sense of food security. Particularly focused on the city of Shanghai, Wuhan, and the nearby areas. Expected to get 300 responses.
- Tech: Qualtrics XM, statistics in social science, questionnaire design, A/B test, GIS.

May 2022-Present

Awards & Engagements

- Finalist Winner - 2021 COMAP Mathematical Contest in Modeling (MCM/ICM)
- Second Prize (Provincial) - 2021 Contemporary Undergraduate Mathematical Contest in Modeling
- Second Prize - 2021 "China Youth Cup" Mathematical Contest in Modeling
- Fellowship - ChinaVis 2022 Conference
- First Prize - DKU Student Ambassador Program of the Year 2021

Extracurricular Experience

Experimental Green Hand (EGH) (DKU Student Band): Rhythm Guitar Player

DKU Orientation Week 2020: Orientation Leader

Nov. 2019-Dec. 2020

Aug. 2020-Sept. 2020