Ge Yuchen

Curriculum Vitae

✆ +86 151 9529 7289
✉ gycdwwd@163.com
🖥 gycdwwd.github.io

Education

2019 -	**BS**, *Shandong University*, *Mathematics*.
GPA	**4.41/5 (rank 1/128)**
Interets	CV and NLP; Mathematics (probability and statistics, manifold theory)

Daily Interests

Sports and Music	I play basketball and swim often since I'm a school team basketball player and good at swimming. Meanwhile under the training of the game of go, I'm a player of grade three. Also I'm a huge fan of guitar.

Honors

2021-2022	First Prize in CMC (**Fourth Place in Shandong Province)**
	China National Award (honor 1% students in a grade)
2020-2021	National College Students' Innovation and Entrepreneurship Training Program
	First Prize in CUMCM
	Second Prize in CMC
	China National Award
	Scholarship of First Level
2019-2020	First Prize in CUMCM
	Third Prize on Competetion on Application of Intelligent Technology
	Second Prize in National College Students Energy saving and Emission Reduction Contest
	Third Prize in MDMCM
	Scholarship of First Level

Relevant Study

Mathematics	Covering **geometry** (topology, differential manifold), **algebra** (linear algebra,basic algebra), **analysis** (basic analysis, real/complex analysis, differential equations, **numerical analysis** and **pobability and mathematical statistics**.
Computer Science	Efficient in Python , Sagemath and LaTeX. I'm self-learning algorithms, computer architecture and operating systems.
English	academic reading and communication *TOEFL iBT 85 , 6 级 559*

Activities

Research Item

2022 **Leader**, *Deep Learning: Theory and application*, America.
- We implement a medical doctor application that can diagnose cancer.
- We implement a NLP speech synthesis interface to communicate the diagnoses result.

2022 **Participant**, *algebra for machine learning and stochastic programming*, Canada.
- Application of Gröbner bases and similar algebraic objects to reduce the computational complexity of specific machine learning approach.

Seminars and Coursera Courses

2022 **Participant**, *Seminars and Coursera Courses*, Online.
- Seminars: Algebraic topology and TDA, Modern Differential Geometry, Advanced Linear Algebra, Advanced Algebra, Lectures on Modules and Rings.
- Coursera: Data Science (IBM).

Mathematical Modeling

2020 **Leader**, *First Prize in Contemporary Undergraduate Mathematical Contest in Modeling*, Online.
- Self-study numerical analysis, basic ML, strategy theory and so on.

Smart Car Competition

2019 **Teammate**, *Competetion on Application of Intelligent Technology*, Qianfo Mountain Campus in Shandong University.
- Study Keil and self-make an auto-pilot smart car.

Item on Materials Science and Engineering

2019 **Teammate**, *Study and Preparation on Nano-sized Upconversion Phosphor*, Qianfo Mountain Campus in Shandong University.
- I provide visualization and statstic analysis by Python.

Current Interest

CV/NLP	Application of NNs like CNN in computer vision and RNN in NLP
Probability Theory	Applied probabilty theory
Statistics	Application of Mathematical Statistics, e.g. in biostatistics.