

Ge Yuchen

Curriculum Vitae

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Education

2019 - **BS**, *Shandong University, Mathematics.*

GPA 4.46/5 (rank 1/128)

Interests 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 Competition 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 **probability 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 87, 6 级 559*

Activities

Research Item

- 2022 **Leader**, *Deep Learning: Theory and application*, MIT.
- We implement a medical doctor application that can diagnose breast cancer and communicate.
 - In detail, We use VGG-16, VGG-19, Xception, ResNet, Inception and Inception-Resnet-V3 to extract features. FCL, LR, SVM, RF and XG-Bost are used as classifiers.
- 2022 **Participant**, *algebra for machine learning and stochastic programming*, University of Quebec.
- Application of Gröbner bases and similar algebraic objects to stochastic programming.

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**, *Competition 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 statistic analysis by Python.

Current Interest

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