

# WANG MA

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## EDUCATION EXPERIENCE

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**Southern University of Science and Technology (SUSTech)** 08/2020 – Present

- Undergraduate in **Data Science and Big Data Technology** (GPA: 3.42/4.0 (overall); 3.63/4.0 (2021-2023) & 3.11 (2020-2021), [Transcripts](#))
- Adviser: [Prof. Chao Wang](#)
- **Main Courses:** Statistical Learning, Algorithms for Convex Optimization, Real Analysis, Numerical Analysis, Statistical Linear Models, Operational Research and Optimization, Machine Learning, Mathematical Statistics, Discrete Mathematics, Advanced Linear Algebra, Probability Theory, Mathematical Analysis

**University of California, Irvine** 03/2023 – 07/2023

- **Exchange Student** (GPA: 4.0/4.0, [Transcripts](#))
- **Courses:** Stochastic Process, Optimization II, Individual Study

## ACADEMIC EXPERIENCE

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**Seminar: Introduction to and Advances in Self-Supervised Learning** 06/2023 – 09/2023  
*SUSTech* *Shenzhen, P.R. China*

- Organizer: [Prof. Chao Wang](#), [Shengjie Niu](#)
- my talks on [Meta-Learning](#) and [Optimizers](#)

**Literature Review: Meta Learning and Reinforcement Learning** 03/2023 – Present  
*University of California, Irvine* *United States*

- Adviser: [Prof. Hengrui Cai](#)

**Literature Review: Advances in Machine Learning and Deep Learning** 02/2023 – Present

- Adviser: [Prof. Chao Wang](#), [Prof. Hengrui Cai](#)
- **Stable Diffusion:** ControlNet, Denoising Diffusion Probabilistic Models (DDPM), Latent Diffusion Models (LDM)...
- **Meta Learning:** MAML, Reptile, FO-MAML, ProMAML, iMAML, ANIL, FO-MAML with Moreau Envelope...
- **Basic Reinforcement Learning:** Sutton's Textbook, [Material](#) by [Prof. Bolei Zhou](#)(UCLA);
- **Aligning Language Models:** [with f-divergence minimization](#);
- **Machine Learning Theory:** Kernel Methods (Random Fourier Features), Operator Learning

**Image, Inverse Problem and Deep Learning Seminar** 08/2022 – 03/2023  
*SUSTech* *Shenzhen, P.R. China*

- Organizer: [Prof. Chao Wang](#)

## SKILLS

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|-----------------------------|---|
| <b>Programming</b>          | Python, Java, Matlab  |
| <b>Software &amp; Tools</b> | Texmacs, Typora, Latex, Jupyter Notebook, MS Office, Pycharm, Git |
| <b>Language</b>             | Mandarin Chinese, English, Shaanxi Dialect Chinese, Japanese      |

## AWARDS & HONORS

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|---|--------------------------|
| Second Prize in Guangdong Province in <a href="#">CUMCM</a> 2021                                | SUSTech, 10/2021         |
| 2021–2022 Excellent Student Scholarship   | SUSTech, 09/2022         |
| 2020–2021 Excellent Student Scholarship   | SUSTech, 09/2021         |
| Square-1 2nd Runner-up in Rubik’s Cube China Championship 2018<br><i>World Cube Association</i> | <i>Beijing</i> , 07/2018 |
| Square-1 2nd Runner-up in Rubik’s Cube China Championship 2017<br><i>World Cube Association</i> | <i>Xi’an</i> , 07/2017   |

## OTHER INTERESTS

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**Rubik’s Cube:** My result in Square-1 event [officially ranks No.2 in mainland China](#) (until July, 2023).

**Baseball:** Watching NPB, Koshien, MLB games. I am a fan of Shohei Otani!

**Anime:** One Piece is my favorite anime! I watched tons of Japan Anime in past years, and corresponding Japan Idol Plannings also attracts me, like Lovelive.