



Jingfeng OU

✉ jfou2023@gmail.com (+86)

☎ +86 18172259627

🌐 <https://jingfengou.github.io>

## 🎓 EDUCATION

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- **Southern University of Science and Technology, Shenzhen, China** **2022 – Present**  
*Master student in Electronic science and technology, expected july 2025*
- **Co-training with Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China** **2022 – Present**
- **Guangxi University, Nanning, China** **2011 – 2015**  
*B.S. in Thermal and dynamic engineering*

## 👤 PUBLICATION

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- 1. Transcriptomic Perturbation Expression Prediction** **Nov.2023 – Aug.2024**  
**J. Ou, J. Li, Z. Xia, S. Dai, Y. Guo, L. Jiang, J. Tang.** scCADE: A Superior Tool for Predicting Perturbation Responses in Single-Cell Gene Expression Using Contrastive Learning and Attention Mechanisms. In **2024 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)** (pp. 441-444). IEEE. (CCF-B)
- 2. Applications of AI in Osteoarthritis** **Aug. 2024 – Feb.2025**  
**J. Ou, J. ZHANG, M. Alswadeh, Zh. Zhu, J. Tang\*, H. Sang\*, K. Lu\*.** Advancing Osteoarthritis Research: The Role of AI in Clinical, Imaging, and Omics Fields. ***Bone research***.(SCI, JCR: Q1, IF:14.3)(Accepted)
- 3. Landmark Gene Identification and Feature Selection** **Mar. 2023 – Oct.2022**  
**J. Ou, J. Li, Z. Xia, S. Dai, Y. Guo, L. Jiang\*, J. Tang\*** “RFAE: a high-robust feature selector based on fractal autoencoder” ***Expert Systems with Applications***. (SCI, JCR: Q1, IF:7.5) (Under revision)

## 👜 PROJECT

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- 1. Segmentation of Cells and Nuclei in Brightfield Images and Prediction of Bio-logical Characteristics** **Sep. 2024 – Present**  
*Collaborating Institution: CellAuto*
- 2. Prediction of Pregnancy Outcomes Based on Folate Metabolism** **Oct.2024 – Present**  
*Collaborating Institution: Shenzhen Second People's Hospital*

## WORK EXPERIENCE

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### • SAIC-GM-Wuling Automobile

Mar.2016 – Sep.2020

*Fuel system engineer*

## SKILLS

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- Skills in language: Python > C++ == C
- Tools for sequencing Data Cleaning and Merging: FASTp, FLASH, MaGeCK
- Tools for cell and nuclei segmentation: Cellprofiler
- Languages: English – Fluent (CET-6 pass), Mandarin - Native speaker

## HONORS AND AWARDS

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1. **Outstanding graduate student**, *SUSTech*, 2024 Nov. 2024
2. **Project mentor**, “Second SIAT Student Scientist”, *SIAT*, 2023 Aug. 2023

## MISCELLANEOUS

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### Hobbies:

- Singing and Choral -SIAT and Southern University of Science choir member
- Fitness (mainly to keep healthy)
- Dogs (especially Samoyed)

### Research Interest:

- **Deep Learning Algorithms:** Deep learning models, from CNNs to Transformers, encapsulate human understanding across various fields and, when applied to industry, enhance our comprehension of the world.
- **Biology and Healthcare:** Understanding biology is crucial for addressing the major challenges of disease and aging, making research in this field both urgent and essential.