Xinyi Zhou (Jason)

East China University of Science and Technology
130 Meilong Road, Xuhui, Shanghai, China 200237

86-158-6899-4392
19001808@mail.ecust.edu.cn

EDUCATION

B.Eng. of Control Science & Engineering *August 2019 – July 2023*
East China University of Science and Technology
Overall GPA: 3.57/4.0; Overall Rank: 13/87

Ph.D. student in Control Science & Engineering *August 2023 - present*
East China University of Science and Technology
Supervisor: Prof. Zhixing Cao (Professor)

AWARDS

Excellent Graduate of East China University of Science and Technology *2023*

Excellent Graduation Thesis of East China University of Science and Technology: Variational
autoencoder aided approximation of non-Markovian models of gene expression *2023*

First prize of Outstanding Innovative Talents Scholarship of East China University of Science and
Technology *2021*

Second Prize of Excellent Scholarship of East China University of Science and Technology *2021*

Endress+Hauser Scholarship *2020*

PROGRAMMES

Oxford Prospects Programmes in the University of Oxford *2020*

Cambridge Academic Programme for East China University of Science and Technology *2021*

FULL PUBLICATION LIST

Journal Publication

[1] Fu, X., **Zhou, X.**, Gu, D., Cao, Z., & Grima, R. (2022). DelaySSAToolkit. jl: stochastic
simulation of reaction systems with time delays in Julia. Bioinformatics, 38(17), 4243-4245.

[2] Zhong, X., **Zhou, X.**, Xia, Y., Bai, G., Dong, J., & Xue, D. (2022). A GUI-based Low-Code
Development Platform for Power Systems Analysis. In 2022 China Automation Congress (CAC)
(pp. 6080-6085). IEEE.

Submitted Journal Publication

[1] Zhou, X., Zuo, L., Cao, Z., & Grima, R. (2023). Variational autoencoder aided approximation of non-Markovian models of gene expression. Submitted to *Bioinformatics*.

[2] Cao, Z., Chen, R., Xu, L., **Zhou, X.**, Fu, X., Zhong, W., & Grima, R. (2023). Efficient and scalable prediction of spatio-temporal stochastic gene expression in cells and tissues using graph neural networks. bioRxiv, 2023-02. Submitted to *Cell Systems*.

INVITED TALKS

[1] The 5th World Laureates Association Forum	*2022.11*
[2] The 34th Chinese Process Control Conference	*2023.07*

SOFTWARE

Graph neural networks aided prediction of spatio-temporal stochastic gene expression https://github.com/X-Y-Zhou/GNN-MME	*2023.3.01*
Stochastic simulator of biochemical reactions with delay https://github.com/palmtree2013/DelaySSAToolkit.jl	*2022.1.19*

RESEARCH INTERESTS

Systems biology, stochastic gene expression, stochastic process, machine learning application in biology

SKILLS

Language Skills:	CET-4 (602), CET-6 (566)
Computer Skills:	Julia, LaTeX, Matlab, Mathematica, C, Python,

REFERENCES

Prof. Zhixing Cao
Supervisor; Professor, School of Information Science and Engineering
East China University of Science and Technology
Email: zcao@ecust.edu.cn
Phone: +86-136-5583-9286
Address: 130 Meilong Road, Xuhui, Shanghai 200237