

# FU YU

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## 🎓 EDUCATION BACKGROUND

### BEIJING NORMAL UNIVERSITY

2021.09 – Present

*B.S. in Computer Science and Technology*

## 👨‍🔬 RESEARCH EXPERIENCE

### Vanke School Of Public Health, TsingHua University

2023.07 – 2023.09

*Research Assistant* YMH Lab

- Contributed to the Model Development section of the dissertation on predicting the transition from non-suicidal self-injury to suicidal behavior based on the LightGBM algorithm by modeling and analyzing large-scale datasets.

### BNU-SYS

2023.12 – Present

*Research Intern* Advised by: Prof.Weixing Ji and Dr.Jianhua Gao

- Contributed in OpenCAEPoro-ASC2024 project to optimize the numerical simulation of fluid flow in porous media, and to improve the simulation efficiency and accuracy by improving the installation and configuration process.
- Completed the migration of the project from x86 to ARM architecture, covering the optimization of cross-platform compatibility, configuration of CMake and Ninja build process, and the application of LLVM and Alive2 toolchain, which improves the running efficiency and code quality on ARM architecture.

## 📖 PUBLICATIONS

Chang Lei, Shicun Xu, Juan Wang, Jingwen Li, **Yu Fu**, Runsen Chen. “Machine learning prediction of perceived future suicide attempts in non-suicidal self-injury adolescents and young adults.” *Computers in Human Behavior*(2023)

## ⚙️ SKILLS

- Programming Skills: C/C++, Python, JAVA, Java Script and Matlab
- High Performance Programming Languages: CUDA, openMP, MPI
- ML & DL frameworks: PyTorch and TensorFlow

## ♥️ HONORS AND AWARDS

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|--|-------------------|
| <i>Meritorious Winner</i> , Mathematical Contest in Modeling                                     | 2022.04           |
| <i>1<sup>st</sup> Prize Scholarship (10%)</i> , Beijing Normal University                        | 2022.09 – 2023.09 |
| <i>1<sup>st</sup> Prize in Beijing</i> , China Undergraduate Mathematical Contest in Modeling    | 2023.05           |
| <i>Top 7%</i> , AliCloud Tianchi's First World Science Intelligence Contest: Life Sciences Track | 2023.10           |
| <i>Golden Medal</i> , Internationally Genetically Engineered Machine Competition (Modelling)     | 2023.11           |
| <i>The 2nd Prize</i> , ASC Student Supercomputer Challenge                                       | 2023.12 – 2024.02 |
| <i>Golden Medal</i> , World Quant Challenge  | 2024.03           |

## 📌 OTHERS

- Languages: CET6: 562
- Interests: Playing Go Board Game / Chess