

WANG TIANQI

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EDUCATION

Donghua University, Shanghai

Sep. 2022 – Jun. 2026 (Expected)

B.Eng. in Intelligent Science and Technology, School of Computer Science and Technology

- **GPA:** 3.93/5.00 (Weighted Average: 89.3/100) **Major Rank:** 5/35 **School Rank:** 30/294
- **Honors:** NITORI International Scholarship (Top 5%), Outstanding Student Award (Top 5%)
- **Key Courses:** Deep Learning and Applications (99), Optimization Theory (98), NLP (96), Big Data Technology (96)

RESEARCH EXPERIENCE

Precise Spiking Neurons for Fitting Any Activation Function in ANN-to-SNN Conversion

Applied Intelligence (SCI Q2), 2025, Co-first Author

- Proposed the Precise Spiking (PS) neuron model enabling accurate, low-latency conversion from ANNs with arbitrary activation functions to SNNs.
- Achieved state-of-the-art (SOTA) results on image and text datasets with minimal accuracy loss (as low as 0.55%).

Early Diagnosis and Prognosis of Alzheimer's Disease via Kolmogorov-Arnold Networks

- Optimized Kolmogorov-Arnold Networks (KAN) for neurodegenerative disease prediction using the ADNI dataset.
- Integrated statistical analysis methods for early detection and prognosis of Alzheimer's disease.

PROJECTS

FieldVision: Smart Tracking & Tactical Analysis for Soft Hockey

Jan. 2025 – Present

AI Model & Algorithm Design, System Development AI Practice Project

- Improved multi-object tracking algorithm to enhance recognition under occlusion.
- Employed RAG-augmented LLMs to auto-generate tactical reports based on predefined logic.
- Built system with Vue, FastAPI, and Vite; deployed backend services and developed frontend visualizations.
- Technologies: FairMOT, RAG, LLM

COMPETITIONS AND AWARDS

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| • MCM/ICM (Mathematical Contest in Modeling) – M Award (First Prize) | May 2024 |
| • MathorCup Big Data Challenge – First Prize | Dec. 2023 |
| • HuaShuCup National Math Modeling – Second Prize | Aug. 2023 |
| • HuaShuCup International Math Modeling – H Award (Second Prize) | Jan. 2025 |
| • Shanghai Regional Math Modeling Contest – Third Prize | Nov. 2023 |
| • Shanghai Collegiate Programming Ability Contest – Third Prize | Jun. 2024 |
| • Jinma Five-Schools Programming Contest – Bronze Medal | May 2023 |

INTERDISCIPLINARY TRAINING

Elite Innovation Program in Industrial Big Data & Intelligent Systems

Mar. 2024 – Apr. 2025

Selected as 1 of 20 university-wide undergraduates. Studied smart manufacturing, industrial big data, robotics; participated in real-world interdisciplinary AI projects.

Cross-disciplinary Preparation: CS, Math, Biology

Sep. 2022 – Jun. 2026 (Expected)

- **Self-directed Learning:** Pursued additional coursework in math and biology alongside CS major.
- **Completed:** Graph Theory, Complex Functions, Cell Engineering (Avg: 93), Cognitive Psychology & Neuroscience (Grade A); **Planned:** Numerical Analysis, Multivariate Analysis, Nonparametric Statistics, PDEs, Operations Research, Medical Fundamentals

SKILLS

Proficient in **Python/PyTorch** for deep learning; familiar with C++; experienced in full-stack development; Skilled in Linux, Git, \LaTeX , and SPSS. Certified in AI (Level 4), Shanghai Higher Education IT Exam.