

YINA TANG

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Education

Grove City College Grove City, PA Expected Graduation: May 2027
Bachelor of Science, Computer Science (ABET accredited) GPA 3.94/4.00
Bachelor of Science, Mathematics *Dean's List with High Distinction*
Minors: AI/Machine Learning, Cybersecurity, Statistics

- Relevant CS coursework: Java I&II, Data Structures and Algorithms, , Intro to ML (current), Parallel Computing (Scala) (current), Advanced Programming (current), Data Comm and Networking (current)
- Relevant Math coursework: Linear Algebra, Ordinary Differential Equations, Statistical Methods I, Theory of Statistics I, Multivariable Calculus

Work & Research Experience

Computer Vision & Robotics Research Grove City College January 2025 – current

- Detect and sort coins with robotic arm using OpenCV and ML models on Jetson Nano

CS & Math Tutor Grove City College September 2024 – current

- Assist undergraduate students with Java, Calculus, Statistical Methods, etc. in 1:1 sessions

IT Helpdesk Attendant Grove City College August 2024 – current

- Work with staff and peers to address network, software, and hardware issues in a timely manner

Data Analysis Research Grove City College June – July 2024

- Explored fish swimming motion with peer and faculty and presented poster at JMM 2025
- Transformed data with PCA (`scikit-learn`) and persistence diagrams (`ripser`)
- Visualized results using `matplotlib` and documented the codebase following `numpy` conventions

Personal Projects

Propedium (iOS) Swift, Xcode, Git, GitHub October 2024 – current

Stores and manages countdowns and countdown widgets with SwiftData

Personal Website (i7t5.com) HTML/CSS, JavaScript, Git, GitHub September 2022 – current

- Static website using Bootstrap on GitHub Pages to showcase personal projects and interests
- Rebuilt website with Astro and UnoCSS at <https://github.com/I7T5/astro>

(Technical) Skills

Programming Languages: Python = Java > JavaScript = C = Scala = Swift = SQL > R
Tools/Platforms: Git, GitHub, HTML/CSS, Linux, JupyterLab, Xcode, VS Code, IntelliJ IDEA
Libraries/Packages: scikit-learn, OpenCV, matplotlib, numpy, pandas, JUnit
Additional skills: Figma, Sketch, L^AT_EX, Markdown, MS Office
Foreign Languages: English (fluent), Chinese (native)

Activities / Interests

Student Mission Fellowship, President Spring 2025 – current
MuKappa, Student Member Spring 2024 – current
ACM, Student Member Fall 2024 – current
UI/UX design (i7t5.com) September 2022 – current

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Bachelor of Science, Computer Science (ABET accredited)

Expected May 2027

Bachelor of Science, Mathematics

GPA 3.94/4.00

Minors: AI/Machine Learning, Cybersecurity

Dean's List with High Distinction

Research Experience

Coin detection with Jetson Nano using ML models and RealSense

Independent Research, Grove City College, Department of CS

January 2025 – current

Advisor: He Zhang

Summary: Detect and sort coins with Realsense 3D camera and robotic arm using `OpenCV` and ML models on Jetson Nano

Analysis of time series data from swimming fish, orientation of the principal components in a high-dimensional data

SOAR 2024, Grove City College, Department of Mathematics

June 2024 – July 2024

Advisor: Michael Jackson

Summary: Explored fish swimming motion with persistent homology (topological data analysis) and PCA using `ripser` and `scikit-learn`

Presentations

“Analysis of time series data from swimming fish, orientation of the principal components in a high-dimensional data.” Poster Session, Joint Mathematics Meetings (JMM25), Seattle, WA (January 10, 2025)

Relevant Coursework

Mathematics: ODE and Numerical Methods, Linear Algebra, Real Analysis I, Theory of Statistics I, Calculus I-III, Statistical Methods I

Computer Science: Introduction to Machine Learning, Advanced Programming (C, Python, JavaScript), Data Structures and Algorithms, Parallel and Distributed Computing (Scala), Data Communications and Networking, Java I-II

Other: General Physics I-II

Academic Interests

Computational Mathematics, Interpretable Machine Learning, Algorithms, Computer Vision, Cybersecurity

Employment

CS & Math Tutor Grove City College September 2024 – current
Assist undergraduate students with Java, Calculus, Statistical Methods, etc. in 1:1 sessions

IT Helpdesk Attendant Grove City College August 2024 – current
Work with staff and peers to address network, software, and hardware issues

Programming/Software Skills

Languages: Python = Java > JavaScript = C = Scala = Swift = SQL = \LaTeX > R

ML & Computer Vision: scikit-learn, OpenCV, matplotlib, numpy, Jupyter Notebook

Web Technologies: HTML/CSS, UnoCSS, Astro, Bootstrap, Markdown, Jekyll

General Dev Tools: Git/GitHub, Docker, Linux, MS Office

IDEs: VS Code, IntelliJ IDEA, Xcode, Zed

UI/UX/Design: Sketch, Figma

Coding Projects

Propedium (iOS) Swift, Xcode, Git/GitHub October 2024 – current
Stores and manages countdowns and countdown widgets with SwiftData

i7t5.com HTML/CSS, JavaScript, Git/GitHub September 2022 – current
Static website using Bootstrap on GitHub Pages to showcase personal projects and interests
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Memberships

Association for Computing Machinery (ACM) Fall 2024 – current
Women for Computer Science Spring 2024 – current

Foreign Languages

English (fluent), Mandarin Chinese (native)