Hantang(Tom) Li

+1-512-245-3409 | hantangli@txstate.edu

hantang-li | ttomli |

San Marcos, TX - 78666, USA

Objective

Dedicated Computer Science educator with over four semesters of teaching experience at Texas State University, current Assistant Professor of Instruction, and mentor to student org at Texas State University.

Education

- **Texas State University** *08 2022 - 12 2024*
  Master of Science in Computer Science San Marcos, Texas
  - GPA: 3.79/4.00
  - Relevant courses: Operating System, Parallel Programming, High Performance Computing, Computer Security
- **University of Texas at Austin** *08 2018 - 05 2022*
  Bachelor of Science in Electrical and Computer Engineering Austin, Texas
  - Grade: 3.4/4.00
  - Relevant courses: Embedded Systems, Computer Architecture, Digital Logic Design, Data Science Lab, Computer Vision, Biology I & II (A), Organic Chemistry I (A), Organic Chemistry II (B)

Experience

- **Assistant Professor of Instruction** *08 2025 - Present*
  Texas State University San Marcos, TX
  - Teach CS 4355 upper-division Algorithms and CS 1342 Python for Scientists & Engineers
  - Maintain high level student engagement by having an interactive classroom & achieved excellent peer faculty evaluation in the first semester
  - Mentor student organization Technical Interview Club
- **Per Course Lecturer** *01 2025 - 05 2025*
  Texas State University San Marcos, TX
  - Teach CS 3320 (Full-Stack Web Development with MERN) and CS 1342 (Python for Scientists & Engineers)
  - Design lectures emphasizing practical coding experience and real-world applications
  - Develop hands-on projects, coding demonstrations, and assessments to reinforce conceptual understanding
- **Graduate Research Assistant** *01 2024 - 12 2024*
  Texas State University San Marcos, Texas
  - Lead backend development for NUEVA nutrition app (in beta [🌐]) funded by a $2M+ U.S. HHS grant, serving 100K+ users in partnership with Meals on Wheels Central TX
  - Designed secure core API, optimized database architecture for nutrition research, and implemented automated integration tests to enhance security and usability
- **Graduate Instructional Assistant** *08 2022 - 01 2024*
  Texas State University San Marcos, Texas
  - Developed an interactive office space allocation app, saving staff 100+ hours
  - CTaught C++ in CS 1428 labs, co-organized a Flask API workshop, and provided tutoring for programming and algorithm courses
- **Graduate Research Assistant** *10 2022 - 11 2022*
  Texas State University San Marcos, Texas
  - Reduce runtime of high-dimensional image data clustering algorithm by refactoring from Python to C++
  - Help Dr. Jelena Tešić's PhD student with their satellite image dataset's data preprocessing pipeline in Detectron2 (Meta)
- **UT Austin ECE Senior Capstone Design** *09 2021 - 05 2022*
  Supervised by Dr. Ruochen Lu, Assistant Professor, Texas ECE Early Career Fellow Austin, Texas
  - Wrote and tested Python script that moves our CNC machine and used Keysight VNA library to collect data from VNA used to analyze a test antenna
  - Worked in University of Texas Microelectronics Research Center

Projects

- **NFL Game Spread Prediction** *08 2021 - 12 2021*
  Pandas, Seaborn, Numpy, XGBoost [GitHub]
  - Successfully predicted on real game and outperformed Vegas betting line
  - Added new NFL games sentiment feature to training dataset using tweets gathered from Twitter API
  - Built out pipeline used Pandas, Seaborn, Numpy, XGBoost
- **Programmable Stopwatch Timer** *12 2021*
  RTL design, Xilinx Vivado, Basys3 FPGA
  - Designed and programmed stopwatch timer and implemented in Verilog function demonstrated on Basys
  - captured the hardware design in HLSM formalism and processor architecture
- **Hardware Calculator** *11 2021*
  RTL design, Xilinx Vivado
  - Designed and implemented ripple carry adder(RCA) and carry lookahead adder(CLA) in Vivado simulator
  - Verified hardware design with custom testbench

Skills

- **Programming Languages:** Python, JavaScript, HTML/DOM, CSS, C/C++, C#, Java
- **Web Technologies:** React/React Native, Django, Node.js, Flask, JUnit, Material-UI, Tailwind CSS
- **Database Systems:** MongoDB, PostgreSQL, Salesforce
- **Data Science & Machine Learning:** Numpy, OpenCV, TensorFlow, PyTorch
- **Cloud Technologies:** AWS, Google Cloud
- **DevOps & Version Control:** Git, Github Actions, Docker, Nginx, Linux CLI, Bash
- **Mathematical & Statistical Tools:** Matlab
- **Other Tools & Technologies:** RTL Design, Verilog, Xilinx Vivado, OpenMP, MPI, CUDA(NVIDIA)

Honors and Awards

- **University of Texas at Austin University Honors** *05 2022*
  University of Texas at Austin [Globe]
  - Semester GPA over 3.50

Presentations

- **Computer Security Class - Review of Quantum Cryptography** *04 2024*
- **Green Computing Class - NVIDIA Corporate Responsibility Report FY2023** *02 2024*

Certifications

- **CITI Researcher/Health Privacy (IPS)** *04 2024 - 04 2027*
- **CITI Information Privacy Security (IPS)** *04 2024 - 04 2027*

Additional Information

Languages: English (Native Fluency), Mandarin Chinese (Native Fluency)