

Wen-Chung Cheng

Research and Teaching Assistant

✉ wcheng3@fau.edu 🏠 Delray Beach, FL, USA 🌐 <https://tinyl.io/Bif2>
🔗 <https://github.com/Ac31415> 🔗 <https://tinyl.io/Biey> 📄 <https://shorturl.at/2474J>

Skills

- **Programming Languages:** Python, C++/C, Java, JavaScript, Swift, MATLAB/SimuLink, Mathematica, PHP, SQL, R, HTML/CSS
- **AI Robotics Packages/Tools Framework:** TensorFlow, PyTorch, Keras, scikit-learn, ROS, OpenCV
- **Data Visualization Tools:** Matplotlib, Microsoft Excel
- **Web Design Tools:** Django, React
- **OS:** Linux, Windows, Mac OS
- **Hardware:** Raspberry Pi, Arduino, Assembly, VHDL

Work Experience

AI Coding/STEM/Chinese Content Evaluator,

(DataAnnotation) Freelancer

Remote

08/2024 - Present

- Evaluated generative AI outputs for coding, STEM, and Chinese prompts using a detailed rubric.
- Built testing environments to validate AI-generated code functionality.
- Reviewed and optimized AI responses by recommending improved inputs.

Research & Teaching Assistant,

(FAU EECS Department)

Boca Raton, FL

12/2019 - Present

- Conduct research on algorithms for autonomous mobile robot applications, focusing on optimization.
- Assist students with coursework, clarifying complex concepts and ensuring academic success.
- Proctor and evaluate exams to maintain academic integrity and assess student performance.

Projects

An Automated Statistical Evaluation Framework of Rapidly-Exploring Random Tree Frontier Detector for Indoor Space Exploration,

(FAU EECS Department)

Boca Raton, FL

01/2022 - 08/2022

- Developed an automated evaluation framework to improve autonomous mobile robot navigation.
- Presented findings at ICCR 2022, earning the Best Oral Presentation award.

Gait Tracking Dashboard using Neural Network,

(FAU EECS Department)

Boca Raton, FL

08/2021 - 12/2021

- Integrated an LSTM neural network to enable real-time gait data predictions from wearable devices.
- Collaborated with team members to align neural network functionality with device capabilities.

Certifications

- Data Science Certificate: Computer Science Analytic Track (Dec. 2021) - [FAU Data Science Certificate](#)

Education

PhD Computer Science

Florida Atlantic University

Boca Raton, FL

01/2022-Present

Relevant Courses: Natural Language Processing, Data Mining & Machine Learning, Design & Attack Secure Embedded System, Cryptographic Engineering.

BSc Computer Science

Florida Atlantic University

Boca Raton, FL

06/2020-05/2021

Relevant Courses: Reinforcement Learning, Deep Learning, Data Science Analytics, Design/Analysis of Algorithms, Data Structure, Database Structures, Internet Computing.

Dual BSc Physics and Mathematics

Florida Atlantic University

Boca Raton, FL

06/2012-05/2017

Relevant Courses: Computational Math & Physics, Discrete Mathematics, Linear Algebra I & II, Mathematica Applications to Physics, Differential Equations I & II, Modern & Complex Analysis.