

Chung-En (Johnny) Yu

+1-972-302-1538 | chungenyu6@gmail.com

 My LinkedIn |  My GitHub |  My Google Scholar |  My Website

Pensacola, Florida - 32514, USA

WORK EXPERIENCE

- **University of West Florida  & Institute for Human Machine Cognition ** Aug 2023 – Present
Graduate Research Assistant - Jalaian AI Lab Pensacola, FL, USA
- **Industrial Technology Research Institute ** Jul 2022 - Aug 2022
Summer Intern – Autonomous Mobile Robot Development Team Hsinchu, Taiwan
- **National Taipei University ** Aug 2018 - Jun 2019
Undergraduate Research Assistant - Intelligent Control System Digital Image Processing Lab New Taipei City, Taiwan

EDUCATION


- **University of West Florida & Institute for Human Machine Cognition** 2023 - Expected 2027
Ph.D. in Intelligent Systems and Robotics Pensacola, USA
- **University of Minnesota** 2021 - 2023
M.S. in Electrical and Computer Engineering Saint Paul, USA
- **National Taipei University** 2016 - 2020
B.S. in Electrical Engineering New Taipei City, Taiwan

PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

- [S.5] Yu, C.-E., Jalaian, B., Bastian, N. D., et al. (2025). **SCoOP: Semantic Consistent Opinion Pooling for Uncertainty Quantification in Multi-VLM Systems**. Manuscript submitted for publication at *MLSys 2026*.
- [S.4] Yu, C.-E., Jalaian, B., Bastian, N. D., et al. (2025). **ORCA: Agentic Reasoning For Hallucination and Adversarial Robustness in Vision-Language Models**. Manuscript submitted for publication at *MLSys 2026*.
- [S.3] Yu, C.-E., Jalaian, B., Bastian, N. D., et al. (2025). **Agentic Reasoning for Robust Vision Systems via Increased Test-Time Compute**. Manuscript available on *arXiv:2509.16343*.
- [S.2] Yu, C.-E., Jalaian, B., Bastian, N. D., et al. (2025). **Hydra: An Agentic Reasoning Approach for Enhancing Adversarial Robustness and Mitigating Hallucinations in Vision-Language Models**. Manuscript available on *arXiv:2504.14395*.
- [S.1] Bizzarri, A., Yu, C.-E., Jalaian, B., Riguzzi, F., & Bastian, N. D. (2024). **A Synergistic Approach in Network Intrusion Detection by Neurosymbolic AI**. Manuscript available on *arXiv:2406.00938*.
- [J.1] Bizzarri, A., Yu, C.-E., Jalaian, B., Riguzzi, F., & Bastian, N. D. (2025). **Neurosymbolic AI for network intrusion detection systems: A survey**. In *Journal of Information Security and Applications*, Vol 94, pp. 104205. Elsevier.
- [C.3] Yu, C.-E., Jalaian, B., & Bastian, N. D. (2024). **Mitigating Large Vision-Language Model Hallucination at Post-hoc via Multi-agent System**. In *Proceedings of the AAI Symposium Series*, Vol. 4, No. 1, pp. 110–113.
- [C.2] Sander, J., Yu, C.-E., Jalaian, B., & Bastian, N. D. (2024). **Uncertainty-Quantified Neurosymbolic AI for Open Set Recognition in Network Intrusion Detection**. In *MILCOM 2024 – IEEE Military Communications Conference*, pp. 13–18. IEEE.
- [C.1] Bizzarri, A., Yu, C.-E., Jalaian, B., Riguzzi, F., & Bastian, N. D. (2024). **Neuro-Symbolic Integration for Open Set Recognition in Network Intrusion Detection**. In *International Conference of the Italian Association for Artificial Intelligence*, pp. 50–63. Springer.

LEADERSHIP

- **Co-Instructor of Graduate-level Machine Learning Course** Jan 2024 - Present
University of West Florida
 - Co-designed and developed original course materials, including assignments, projects, and lecture slides for graduate-level ML instruction.
 - Delivered weekly live sessions combining lecture content, interactive coding demonstrations, and research spotlights on recent advances in AI.
 - Mentored students through practical ML workflows, covering classical models (e.g., logistic regression, decision trees) and modern deep learning techniques (e.g., Transformers, CNNs), fostering both technical mastery and applied understanding.
- **Website Chair** Jun - Nov 2024
AAAI 2024 Fall Symposium - AI Trustworthiness and Risk Assessment for Challenged Contexts (ATRACC) Track 
 - Designed, developed, and maintained the official symposium website, ensuring timely updates and user-friendly navigation for attendees, organizers, and authors.
 - Collaborated closely with program chairs and the organizing committee to manage content, schedule announcements, and integrate submission and registration details.
- **Vice-Chairperson of Department Student Association** Aug 2018 - Jun 2019
National Taipei University, Taiwan
 - Managed department student association budget of over \$170K NTD and oversaw logistics for large-scale events.
 - Coordinated cross-department initiatives, enhancing collaboration and student engagement university-wide.

HONORS AND AWARDS

- **Innovation & Entrepreneurship Competition – Venture Capital Award** Jan 2020
Ministry of Education, Taiwan
 - Won \$100K NTD in venture capital funding, selected as a recognized team among over 300 competing groups.
 - Proposed a precision-focused movie search engine strategy, praised by industry judges for its innovation and real-world applicability.
- **Honorable Mention – Data Science Application Hackathon** Jan 2019
National Taipei University, Taiwan
 - Awarded the only honorable mention out of 20 teams in a two-day university-hosted data science hackathon.
 - Designed a mobile personal assistant using public open data to provide personalized health services for pregnant.

ADDITIONAL INFORMATION

- **Languages:** Mandarin (Native), English (Proficiency)