

# Ioannis Panitsas

17 Hillhouse Ave., New Haven, CT, USA | [ioannis.panitsas@yale.edu](mailto:ioannis.panitsas@yale.edu) | [panitsasi.github.io/](https://panitsasi.github.io/)

## Research Area

I am a fourth-year Ph.D. candidate in Electrical and Computer Engineering at Yale University, working at the intersection of next-generation wireless networks (5G/6G, Open-RAN) and machine learning.

Research interests: network optimization • network security • networked systems • learning-driven systems

## Education

<b>Yale University</b> , New Haven, CT, USA	08/2022 – 08/2027
Ph.D. Candidate in Electrical and Computer Engineering	
Advisor: Prof. Leandros Tassiulas	
<b>Yale University</b> , New Haven, CT, USA	09/2022 – 05/2025
M.Phil. in Electrical and Computer Engineering (Honors)	
<b>Yale University</b> , New Haven, CT, USA	09/2022 – 12/2023
M.Sc. in Electrical and Computer Engineering (Honors)	
<b>School of Military Engineering</b> , Loutraki, Greece	03/2021 – 05/2022
2nd Lieutenant, Engineering Corps, Hellenic Army	
<b>University of Patras</b> , Patras, Greece	09/2016 – 07/2021
B.Sc. & M.Sc. in Electrical and Computer Engineering (Top 2%)	
Advisor: Prof. Dimitrios Serpanos	

## Selected Publications

- **I. Panitsas**, T. Atalay, D. Stojadinovic, A. Stavrou, and L. Tassiulas, "SlicePilot: Demystifying Network Slice Placement in Heterogeneous Cloud Infrastructures," *IEEE INFOCOM — IEEE Conference on Computer Communications*, 2026.
- **I. Panitsas**, I. Ofeidis, and L. Tassiulas, "FedJam: Multimodal Federated Learning Framework for Jamming Detection," *IEEE INFOCOM — IEEE Conference on Computer Communications*, 2026.
- **I. Panitsas**, Y. Yigit, L. Maglaras, L. Tassiulas, and B. Canberk, "JamShield: A Machine Learning Detection System for Over-the-Air Jamming Attacks," *Proceedings of the IEEE International Conference on Communications (ICC)*, 2025.
- **I. Panitsas**, A. Mudvari, and L. Tassiulas, "D2Q Synchronizer: Distributed SDN Synchronization for Time-Sensitive Applications," in *Proceedings of the IEEE International Conference on Machine Learning for Communication and Networking (IEEE ICMLCN)*, 2025.
- **I. Panitsas**, T. Atalay, D. Stojadinovic, Angelos Stavrou and L. Tassiulas, "5GC-Bench: A Framework for Stress-Testing and Benchmarking 5G Core VNFs," under review.
- **I. Panitsas**, A. Mudvari, A. Maatouk, and L. Tassiulas, "A Deep and Transfer Learning Approach for Handover Management in O-RAN," under review.

## Industry Experience

<b>Research Scientist Intern</b> , A2 Labs – Arlington, VA, USA	07/2025 – 08/2025
• Implemented a topology orchestrator for optimal slice placement in heterogeneous cloud infrastructures.	
• Built <i>5GC-Bench</i> , a benchmarking framework for stress-testing and profiling 5G Core VNFs.	

<b>Research Scientist Intern</b> , Kryptowire Labs – Arlington, VA, USA	07/2024 – 08/2024
• Developed <i>SlicePilot</i> , a reinforcement learning-based framework for online VNF placement in heterogeneous cloud environments.	
<b>Embedded Software Engineer Intern</b> , Renesas Electronics – Patras, Greece	08/2020 – 10/2020
• Performed link-layer penetration testing and security evaluation of the Bluetooth Low Energy 5.0 protocol, identifying protocol-level vulnerabilities through crafted over-the-air exploits.	

## Teaching Experience

---

<b>Teaching Assistant</b> , Yale University – New Haven, CT, USA	01/2025 – 05/2025
• Course: Introduction to Computing for Engineers and Scientists, ENAS 130	
<b>Teaching Assistant</b> , Yale University – New Haven, CT, USA	08/2024 – 12/2024
• Course: Introduction to Communications and Control, EENG 202	
<b>Teaching Assistant</b> , Yale University – New Haven, CT, USA	01/2024 – 05/2024
• Course: Introduction to Computing for Engineers and Scientists, ENAS 130	

## Workshops

---

- **CyberPowder Fellows Program 2025**, University of Utah, Salt Lake City, UT, USA  
Participated in an on-site research workshop on the POWDER wireless testbed.
- **Open AI Cellular (OAIC) Workshop 2024**, Mississippi State University, Starkville, MS, USA  
Engaged in hands-on experimentation at the OAIC research workshop.
- **Young Gladiators Workshop 2024**, Northeastern University, Boston, MA, USA  
Participated in an on-site research workshop on the Colosseum wireless emulator.

## Reviewer Roles

---

- IEEE Communications Magazine
- IEEE/ACM Transactions on Networking
- ACM SIGMETRICS
- IEEE Military Communications Conference

## Skills

---

- **Programming:** Python, C/C++, OpenMP, JavaScript, Java, SQL, MongoDB, HTML, CSS, Node.js
- **Tools:** Docker, Kubernetes, Helm

## Languages

---

- English (fluent), Greek (native)