ILIANA MARIA XYGKOU

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EDUCATION

- Ph.D. in Computer Science, Georgia Institute of Technology, U.S.A. 08/2022 (expected exit as M.S.) 12/2025
 - o GPA: 4.0/4.0
 - o Advisor: Prof. Alberto Dainotti
 - Focus: BGP routing security, programmable networks
- Diploma (Integrated MEng) in Electrical and Computer Engineering (5-year degree), National Technical University of Athens, Greece
 - Grade: 9.66/10 (3rd/318)
 - Concentration: Informatics
 - Diploma Thesis (<u>Abstract</u>): "Misinformation containment in social network platforms", supervised by Prof. S. Papavassiliou

PROFESSIONAL EXPERIENCE

• Graduate Research Assistant, Georgia Institute of Technology

08/2022 - 05/2023, 01/2025 -

PhD Intern, Cisco ThousandEyes

05/2024 - 08/2024

- Project: "BGP Zombies Detection" under the guidance of Researcher A. Chariton and Prof. X.
 Dimitropoulos.
- Graduate Teaching Assistant, Georgia Institute of Technology

08/2023 - 05/2024, 08/2024 - 12/2024

- Course: Computer Networks / Computer Networking II
- Research Intern, Coalition Inc

05/2023 - 08/2023

- o Project "Honeypot Detection" under the guidance of Dr. S. Bell and Dr. D. Woods.
- **Technical Support Help Desk**, National Technical University of Athens

09/2021 - 08/2022

• Resolution of technical issues of NTUA's new educational Moodle platform, "Helios", under the guidance of Professors P. Tsanakas and E. Sykas.

RESEARCH

- Advancement and evaluation of the <u>Global Routing Intelligence Platform</u> (GRIP), a BGP incident detection and monitoring tool. GRIP detects and classifies BGP incidents including misconfigurations, exact and subprefix misoriginations, as well as AS path manipulation attacks.
- Design and implementation of MORP4, a programmable data plane framework implementing a "dynamic" network telescope. MORP4 adaptively tracks unused space of an organization's network with configurable time and space granularity and captures only traffic directed towards unused addresses.

AWARDS AND HONORS

- Doctoral Scholarship, Onassis Foundation, 2023-2026
- Seeds For The Future Scholarship, Huawei, 2021
 - o As part of the "Seeds For The Future" program for students with academic excellence.

PRESENTATIONS

- "Reviving BGP Zombies: New Insights"
 - o NANOG93 (Security Track talk). Prague, Czechia, October 2024.
 - o RIPE89 (plenary presentation). Atlanta, GA, U.S.A., February 2025.

"Observing Trends in Internet Routing Security"

- o RIPE89 (lightning talk). Prague, Czechia, October 2024.
- o Internet Integrity Workshop (invited talk). Prague, Czechia, October 2024.

HARD SKILLS

• Programming languages: Python, C++/C, P4, Prolog, Javascript, Java, SML

• Frameworks: Express, Flask, React

• Operating systems: Linux, UNIX (FreeBSD), Windows

• Routing software: Quagga, FRR

Database management systems: ElasticSearch, MySQL, PostgreSQL, Redis

Distributed systems: Apache Kafka

LANGUAGES

• English: Proficient -- ECPE C2, 08/2015

• German: Upper-Intermediate -- Goethe-Zertifikat B2, 09/2021

Greek: Native

VOLUNTEERING EXPERIENCE

- Volunteer as judge in Greek National Educational Robotics Competition hosted by WRO Hellas (2018, 2019)
- Volunteer in non-profit actions (cleaning forests, helping in the execution of sports events e.g., "Greece Race for the Cure" hosted by Hellenic Association of Women with Breast Cancer "Alma Zois" (2017, 2018, 2019))