

# GEORGIOS SYROS

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## Education

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<b>Northeastern University</b> , Boston, MA, United States	2023 - Present
Ph.D. in Computer Science, <b>GPA: 4.0</b>	
Advisors: <i>Prof. Alina Oprea, Prof. Cristina Nita-Rotaru</i>	
<b>Northeastern University</b> , Boston, MA, United States	2023 - 2025
M.Sc. in Computer Science, <b>GPA: 4.0</b>	
<b>Athens University of Economics and Business</b> , Athens, Greece	2019 - 2023
B.Sc. in Computer Science, <b>GPA: 9.35/10</b>	

## Research Experience

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<b>Cybersecurity &amp; Privacy Institute, Northeastern University, Boston</b>	2023 - Present
Graduate Research Assistant	
Research in security for systems that employ machine learning and AI.	
<b>Maryland Cybersecurity Center, University of Maryland, College Park</b>	2022
Undergraduate Research Assistant	
Research Internship in security for machine learning in database management systems.	
<b>Mobile Multimedia Lab, Athens University of Economics and Business</b>	2021 - 2023
Undergraduate Research Assistant	
Research on distributed ledger technologies and decentralized storage networks.	

## Publications

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<b>MUZZLE: Adaptive Agentic Red-Teaming of Web Agents Against Indirect Prompt Injection Attacks</b> , preprint, 2026	
<b>Georgios Syros</b> , Evan Rose, Brian Grinstead, Christoph Kerschbaumer, William Robertson, Cristina Nita-Rotaru, Alina Oprea,	
<i>An automated prompt injection vulnerability discovery framework for AI web agents.</i>	
<b>SAGA: A Security Architecture for Governing AI Agentic Systems</b> , NDSS, 2026	
<b>Georgios Syros</b> , Anshuman Suri, Jacob Ginesin, Cristina Nita-Rotaru, Alina Oprea,	
<i>A secure architectural framework to control communication and capabilities of AI agents.</i>	
<b>DROP: Poison Dilution via Knowledge Distillation for Federated Learning</b> , preprint, 2025	
<b>Georgios Syros*</b> , Anshuman Suri*, Farinaz Koushanfar, Cristina Nita-Rotaru, Alina Oprea,	
<i>A defense that mitigates backdoor attacks in FL by distilling clean knowledge from poisoned models.</i>	
<b>Backdoor Attacks in Peer-to-Peer Federated Learning</b> , ACM Transactions on Privacy and Security (TOPS), 2024	
<b>Georgios Syros*</b> , Gokberk Yar*, Simona Boboila, Cristina Nita-Rotaru, Alina Oprea,	

*Analyzes and demonstrates novel backdoor attacks in decentralized federated learning settings.*

**Decentralized NFT-based Evolvable Games**, 4th Conference on Blockchain Research and Applications for Innovative Networks and Services (BRAINS), 2022

Christos Karapapas, **Georgios Syros**, Iakovos Pittaras, George C. Polyzos,

*Proposes a blockchain-based framework designed to support artist sustainability in digital games, enabling the use of NFTs as dynamic, evolvable assets that respond to player actions.*

## Talks

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**From Autonomy to Accountability: Securing Agentic AI Systems with SAGA**

@ *Khoury Security Day '25*,

May 2025

**DROP: Poison Dilution via Knowledge Distillation for Federated Learning**

@ *New England Systems Day '25*,

Feb 2025

## Teaching Experience

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### Northeastern University

Assisted students with their projects and graded assignments for the following courses:

· CS3650 Computer Systems

Fall 2025

· CS6620 Fundamentals of Cloud Computing

Summer 2025

## Awards and Honors

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· Financial Scholarship for Academic Excellence, *Huawei Hellas Enterprise*

· Honor for High Academic Performance, *Athens University of Economics and Business*

· Selected for Greek delegation, *Huawei Seeds for the Future 2021*

## Academic Service

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Reviewed submissions for the following venues:

· ACM Transactions on Privacy and Security (TOPS) Journal

· ACM Conference on Computer and Communications Security (CCS)

## Software

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· COOKMATE: developing an enhanced microwave interface with accessibility features [[PDF](#)] [[GitHub](#)]

· STRABO.IO; a real time NLP-backed Greeklish-to-Greek translation keyboard for Android [[GitHub](#)]

· V $\zeta$ OOM; developing a fast, lightweight video calling web app using WebRTC [[GitHub](#)]

· SIMPLEGRAM; A simple Pub/Sub distributed messenger app [[GitHub<sup>1</sup>](#)] [[GitHub<sup>2</sup>](#)]

## Technical Skills

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**Programming:** Python, C, C++, Java, PostgreSQL

**Machine Learning:** TensorFlow, PyTorch, Adversarial ML, Federated Learning

**Security:** Network monitoring (Wireshark), Cryptographic protocols

**Tools:** Docker, Git, LaTeX

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\* Equal contribution.