

ANTONIS MANOUSIS

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Collaborative Innovation Center, 4720 Forbes Ave, Pittsburgh, PA 15213

RESEARCH INTERESTS

Computer networks, Network Performance, Telemetry, Video Analytics

EDUCATION

Carnegie Mellon University

Ph.D. in ECE
Advisors: Vyas Sekar

Pittsburgh, PA, USA
In progress since Aug. 2015

National Technical University of Athens

M.Eng. in Electrical and Computer Engineering
GPA: 9.2/10 (top 3%)

Athens, Greece
Feb. 2015

Royal Institute of Technology (KTH)

Erasmus Exchange Program

Stockholm, Sweden
Jan. - Jul. 2012

AWARDS

ACM SIGCOMM 2016 Student Travel Grant	2016
Gerontelis Foundation Fellowship	2016
Dean's Graduate Fellowship, CMU	2015
Frank J. Marshall Graduate Fellowship, CMU	2015

PUBLICATIONS

- [1] **Antonis Manousis**, Rahul Anand Sharma, Vyas Sekar, and Justine Sherry. [Contention-Aware Performance Prediction For Virtualized Network Functions](#). In Proceedings of the Annual conference of the ACM Special Interest Group on Data Communication on the applications, technologies, architectures, and protocols for computer communication, pages 270–282, 2020.
- [2] Zaoxing Liu, **Manousis, Antonis**, Gregory Vorsanger, Vyas Sekar, and Vladimir Braverman. [One Sketch to Rule Them All: Rethinking Network Flow Monitoring with UnivMon](#). In Proceedings of the 2016 ACM SIGCOMM Conference, page 101114, 2016.
- [3] **Antonis Manousis**, Roy Ragsdale, Ben Draffin, Adwiteeya Agrawal, and Vyas Sekar. [Shedding light on the adoption of let's encrypt](#). arXiv preprint arXiv:1611.00469, 2016.

RESEARCH EXPERIENCE

Graduate Research Assistant, ECE Department, CMU

Aug. 2015 - Present

- Worked on building Orchestration frameworks ensuring predictable performance in NFV [1].
- Worked in the design and development of novel sketch-based telemetry frameworks [2].

Research Intern, Conviva

May - Aug. 2018

- Worked on designing algorithms for real-time QoS anomaly detection in a large-scale video streaming analytics platform.

Research Intern, Intel Labs, Ireland

Jan. - Jul. 2015

- Worked on the development of [NetIDE](#), an Eclipse-like IDE to support the network design cycle in SDN environments.

Research Assistant, Greek Research & Technology Network (Diploma thesis)

Sep. 2014 - Jan. 2015

- Implemented highly-available virtual routers for [Synnefo](#), an open source IaaS cloud stack.

TEACHING EXPERIENCE

18-731: Network Security, *Teaching Assistant*, CMU

Spring 2019

Made homework assignment and exam problems. Held weekly office hours.

GRADUATE COURSEWORK

Carnegie Mellon University

Fall '15 Introduction to Computer Security

Lujo Bauer

Fall '15 Computer Architecture

Onur Mutlu

Spring '16 Computer Networks

Srini Seshan

Spring '16 Network Security

Vyas Sekar

Fall '16 Advanced Operating Systems and Distributed Systems

Dave Andersen

Fall '16 Networks in the Real World

Radu Marculescu

Spring '17 Introduction to Machine Learning

Aarti Singh

Spring '18 Probabilistic Graphical Models

Kayhan Batmanghelich

LANGUAGES

Greek: Native Proficiency

English: Full Professional Proficiency

French: Full Professional Proficiency

Spanish: Full Professional Proficiency

Italian: Professional Working Proficiency

Swedish: Limited Working Proficiency

Japanese: Elementary Proficiency