Angeliki Zavou

Curriculum Vitae

✆ *+1 646-492-4158*
✉ *angelikazavou@gmail.com*

Research Interests

Web Applications Security, Privacy, Mobiles Security, Dynamic Information Flow Tracking and Taint Analysis

Employment

Academic

Sep. 2015-Present — **Assistant Professor**, *Computer Science Department, Hofstra University*, Hempstead, NY.
- Conducting research on privacy-related issues of social-networking applications and data leaks by mobile applications.
- Teaching undergraduate & graduate courses: *Network Security, Operating Systems, CS Fundamentals (Python), Data Structures & Object-Oriented Programming (Java)*

Jul. 2015-Aug. 2015 — **Instructor**, *School of Continuing Education, Columbia University*, N.York, NY.
- Taught two "Intro to C" programming courses for honors high school students.
- Organized programming contests.

Sep. 2006-May. 2014 — **Graduate Research & Teaching Assistant**, *Computer Science Department, Columbia University*, N.York, NY.
- Built an auditing infrastructure for cloud-hosted services aiming at the detection of suspicious activity and the protection of critical data in the cloud (NSF-funded project MEERKATS).
- Built tools for efficient cross-host data flow tracking (NSF-funded project MINESTRONE).
- Supervised graduate students' network-security related projects. Reported to Prof. Angelos Keromytis & Prof. Steve Bellovin (Network Security Lab).

Industrial

Apr. 2005-Aug. 2006 — **Network & Systems Administrator**, *Hellenic Migration Policy Institute*, Athens, Greece.
- Managed network and workstation troubleshooting.

Internships

Jun. 2008-Aug. 2008 — **Penetration Testing Intern**, *AT&T Research Labs*, Florham Park, NJ.
- Conducted web-application vulnerability assessment, and penetration testing on AT&T software products and AT&T labs' network infrastructure.

Jan. 2005-Mar. 2005 — **IT Trainee**, *United Nations, High Commissioner for Refugees (UNHCR), Protection Information Section (PIS)*, Geneva, Switzerland.
- Provided technical support and testing for new UNHCR software.
- Handled communications between PIS and corresponding UN branches, international organizations, institutes and libraries, world-wide, regarding Country Reports prepared and published by UNHCR.

Mar. 2004-May 2004 — **Junior Software Engineer**, *Municipality of Athens, IT Department*, Athens, Greece.
- Analyzed the information systems of all Municipal Daycare Centers and of the Youth Physical Education Department and assisted in the modification of "Financial Management Software" accordingly.
- Trained employees of other municipalities on the aforementioned software.

Education

Nov. 2014 — **Ph.D. in Computer Science**, *Columbia University*, N.York, NY.
Thesis: *Information flow auditing in the Cloud*
Supervisor: Prof. Angelos D. Keromytis

May 2010 — **M.Phil. in Computer Science**, *Columbia University*, N.York, NY.

| May 2008 | **M.Sc. in Computer Science**, *Columbia University*, N.York, NY. |
| Feb. 2005 | **B.Sc. in Informatics**, *University of Piraeus*, Athens, Greece. |

Skills

Programming	Python, C, Java, SQL, JavaScript, HTML, gdb.
Security-related	Kali Linux tools: Burp Suite, Wireshark, SQLmap, hashcat, nmap.
Languages	English, Greek (native), German (conversant).

Scholarships-Awards-Grants

2019	**Google Cloud**, *Education Grant*, support for Spring'19 courses (Operating Systems & Network Security).
2018	**Facebook Inc.**, *Faculty Grant*, for attendance of security conferences (Wicys'18 & '19, Blackhat'18 & '19, Defcon'18 & '19).
2009-2013	**Alexander S. Onassis Public Benefit Foundation**, *Scholarship*, for academic excellence.
2010	**Gerondelis Benefit Foundation**, *Scholarship*, for academic excellence in PhD studies.
2003	**Deutsher Akademischer Austausch Dienst (DAAD)**, *Scholarship*, for summer language course at Ludwig-Maximilians Universitaet (LMU), Munich, Germany.
1990-1992	**Chess National Student Championships**, *Gold medal (twice) & silver medal*, Athens, Greece.

Peer-Reviewed Publications

1. Angeliki Zavou and Connor Sampson. *Empowering social media users with social-profiling tools to increase their privacy-awareness.* Submitted to the 21st International Conference on Human Computer Interaction (HCII). Orlando, USA. July 2019.

2. Vasilis Pappas, Vasileios P. Kemerlis, Angeliki Zavou, Michalis Polychronakis, and Angelos D. Keromytis. *CloudFence: Data Flow Tracking as a Cloud Service.* In Proceedings of the 16th International Symposium on Research in Attacks, Intrusions and Defenses (RAID). Saint Lucia. October 2013

3. Angeliki Zavou, Vasilis Pappas, Vasileios P. Kemerlis, Michalis Polychronakis, Georgios Portokalidis, and Angelos D. Keromytis. *Cloudopsy: an Autopsy of Data Flows in the Cloud.* In Proceedings of the 15th International Conference on Human-Computer Interaction (HCI). Las Vegas, USA. July 2013.

4. Angeliki Zavou, Georgios Portokalidis, and Angelos D. Keromytis. *Self-healing Multitier Architectures Using Cascading Rescue Points.* In Proceedings of the 28th Annual Computer Security Applications Conference (ACSAC). Orlando, USA. December 2012.

5. Angeliki Zavou, Elias Athanasopoulos, Georgios Portokalidis, and Angelos D. Keromytis. *Exploiting Split Browsers for Efficiently Protecting User Data.* In Proceedings of the 15th ACM Workshop on Cloud Computing Security (CCSW). Raleigh (NC), USA. October 2012.

6. Angeliki Zavou, Georgios Portokalidis, and Angelos D. Keromytis. *Taint-Exchange: a Generic System for Cross-process and Cross-host Taint Tracking.* In Proceedings of the 6th International Workshop on Security (IWSEC). Tokyo, Japan. November 2011.