

Curriculum Vitae

PERSONAL INFORMATION

NAME: **Georgios Kontaxis**
EMAIL: kontaxis@cs.columbia.edu
WEBSITE: <https://www.cs.columbia.edu/~kontaxis/>
<https://github.com/kontaxis>

RESEARCH INTERESTS

- Web security and privacy
- Network security
- Systems security
- Applied cryptography

EDUCATION

- Sep. 2011 - July 2016 **Ph.D. in Computer Science**
Columbia University, NY, USA

Thesis: Reducing third parties in the network through client-side intelligence

Advisor: Prof. Angelos D. Keromytis
- Sep. 2011 - Oct. 2015 **M.Phil. in Computer Science**
Columbia University, NY, USA

Advisor: Prof. Angelos D. Keromytis
- Sep. 2009 - June 2011 **M.Sc. in Computer Science**
University of Crete, Greece

Thesis: A lightweight, censorship-resistant web access architecture

Advisor: Prof. Evangelos P. Markatos
- Sep. 2003 - June 2009 **B.Sc. in Computer Science**
University of Crete, Greece

Thesis: Advanced intrusion detection using shadow honeypots and network-level emulation

Advisor: Prof. Evangelos P. Markatos

PROFESSIONAL EXPERIENCE

Mar. 2018 - Today **Security Engineer**
Apple Inc.

Network security across Apple's product line

Sep. 2016 - Mar. 2018 **Privacy Engineer**
Apple Inc.

Privacy guidance across Apple's product line

May 2015 - Aug. 2015 **Security & Privacy Research Intern**
Microsoft Research

Supervisor: Helen J. Wang

June 2014 - Aug. 2014 **Security & Privacy Engineering Intern**
Mozilla Corporation

Tracking Protection in Firefox

Supervisor: Monica Chew

Sep. 2011 - May 2016 **Graduate Research Assistant**
Network Security Lab,
Computer Science Department,
Columbia University

Supervisor: Prof. Angelos D. Keromytis

Sep. 2009 - Aug. 2011 **Graduate Research Assistant**
Distributed Computing Systems Lab,
Institute of Computer Science,
Foundation for Research and Technology Hellas

Research on Web security & Honeypots.
European Union funded projects NoAH, SysSec.

Supervisor: Prof. Evangelos P. Markatos

Feb. 2006 - Aug. 2009 **Undergraduate Research Assistant**
Distributed Computing Systems Lab,
Institute of Computer Science,
Foundation for Research and Technology Hellas

Research on Honeypots & Intrusion detection.
European Union funded project NoAH.

Supervisor: Prof. Evangelos P. Markatos

TEACHING EXPERIENCE

Instructor for the following courses:

- COMS-W4180 Network Security (Summer 2013, 2015)
Columbia University

Teaching assistant for the following courses:

- COMS-W4187 Security Architecture and Engineering (Fall 2013)
Prof. Steven M. Bellovin, Columbia University
- COMS-W4180 Network Security (Spring, Summer, Fall 2012)
Prof. Angelos D. Keromytis, Columbia University
- CS-255 Programming Lab (Spring 2011)
Prof. Angelos Bilas, University of Crete
- CS-345 Operating Systems (Fall 2010)
Prof. Evangelos P. Markatos, University of Crete
- CS-459 Internet Measurements (Spring 2010)
Prof. Evangelos P. Markatos, University of Crete
- CS-457 Information Systems Security
(Fall 2009, 2008, 2007, 2006)
Prof. Harry Manifavas, University of Crete

REFEREED PUBLICATIONS

Journals

1. **Georgios Kontaxis**, Michalis Polychronakis, and Evangelos P. Markatos. **Minimizing Information Disclosure to Third Parties in Social Login Platforms**. International Journal of Information Security (IJIS), vol. 11, no. 5, pp. 321-332, **2012**. DOI: 10.1007/s10207-012-0173-6

Conference Proceedings

1. Georgios Kontaxis and Angelos D. Keromytis. **Protecting Insecure Communications with Topology-aware Network Tunnels**. In Proceedings of the 23rd ACM Conference on Computer and Communications Security (CCS). October **2016**, Vienna, Austria. (Acceptance rate: 16.5% [137/831])
2. Georgios Kontaxis and Monica Chew. **Tracking Protection in Firefox For Privacy and Performance**. In Proceedings of the 9th Workshop on Web 2.0 Security and Privacy (W2SP). May **2015**, San Jose, California. **Best Student Paper Award**. (Acceptance rate: 29% [10/34])
3. Georgios Kontaxis, Elias Athanasopoulos, Georgios Portokalidis, and Angelos D. Keromytis. **SAuth: Protecting User Accounts from Password Database Leaks**. In Proceedings of the 20th ACM Conference on Computer and Communications Security (CCS). November **2013**, Berlin, Germany. (Acceptance rate: 19.8% [105/530])

4. Iasonas Polakis, Marco Lancini, **Georgios Kontaxis**, Federico Maggi, Sotiris Ioannidis, Angelos D. Keromytis, and Stefano Zanero. **All your face are belong to us: Breaking Facebook's Social Authentication**. In Proceedings of the 28th Annual Computer Security Applications Conference (ACSAC). December **2012**, Orlando, FL, USA. (Acceptance rate: 19% [44/231])
5. **Georgios Kontaxis**, Michalis Polychronakis, Angelos D. Keromytis, and Evangelos P. Markatos. **Privacy-Preserving Social Plugins**. In Proceedings of the 21st USENIX Security Symposium. August **2012**, Bellevue, WA, USA. (Acceptance rate: 19.4% [43/222])
6. **Georgios Kontaxis**, Michalis Polychronakis and Evangelos P. Markatos. **SudoWeb: Minimizing Information Disclosure to Third Parties in Single Sign-On Platforms**. In Proceedings of the 14th Information Security Conference (ISC). October **2011**, Xi'an, China. **Best Student Paper Award**. (Acceptance rate: 26.3% [25/95])
7. **Georgios Kontaxis**, Iasonas Polakis, Michalis Polychronakis and Evangelos P. Markatos. **dead.drop: URL-based Stealthy Messaging**. In Proceedings of 7th European Conference on Computer Network Defense (EC2ND). September **2011**, Gothenburg, Sweden. (Acceptance rate: 32% [8/25])
8. Demetris Antoniadis, Iasonas Polakis, **Georgios Kontaxis**, Elias Athanopoulos, Sotiris Ioannidis, Evangelos P. Markatos and Thomas Karagiannis. **we.b: The Web of Short URLs**. In Proceedings of the 20th International World Wide Web Conference (WWW). March **2011**, Hyderabad, India. (Acceptance rate for full papers: 12.4% [82/658])

Workshop Proceedings

1. **Georgios Kontaxis**, Iasonas Polakis and Sotiris Ioannidis. **Outsourcing Malicious Infrastructure to the Cloud**. In Proceedings of the 2011 SysSec Workshop, co-located with the 8th conference on Detection of Intrusions and Malware and Vulnerability Assessment (DIMVA). July **2011**, Amsterdam, Netherlands.
2. **Georgios Kontaxis**, Demetris Antoniadis, Iasonas Polakis and Evangelos P. Markatos. **An Empirical Study on the Security of Cross-Domain Policies in Rich Internet Applications**. In Proceedings of the 4th European Workshop on System Security (EuroSec), co-located with EuroSys. April **2011**, Salzburg, Austria.
3. **Georgios Kontaxis**, Iasonas Polakis, Sotiris Ioannidis and Evangelos Markatos. **Detecting Social Network Profile Cloning**. In Workshop Proceedings of the 9th Annual IEEE International Conference on Pervasive Computing and Communications (PerCom). 3rd IEEE International Workshop on Security and Social Networking (SESOC). March **2011**, Seattle, WA, USA. (Acceptance rate: 26.9% [7/26])
4. Iasonas Polakis, **Georgios Kontaxis**, Spiros Antonatos, Eleni Gessiou, Thanasis Petsas and Evangelos P. Markatos. **Using Social Networks to Harvest Email Addresses**. In Proceedings of the 9th ACM Workshop on Privacy in the Electronic Society (WPES), co-located with the ACM Conference on Computer and Communications Security (CCS). October **2010**, Chicago, IL, USA. (Acceptance rate for full papers: 20.8% [10/48])