

Georgios Portokalidis

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Stevens Institute of Technology, NJ, USA
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Academic Positions Held

- Stevens Institute of Technology, New Jersey, USA** (January 2013 – present)
Assistant Professor of Computer Science
- Stevens Institute of Technology, New Jersey, USA** (September 2016 – December 2016)
Program director MS in Cybersecurity
- Columbia University, New York, USA** (March 2010 – December 2012)
Postdoctoral researcher in the Network Security Lab (NSL)

Education

- Ph.D.** Computer Science, Vrije University, The Netherlands (February 2010)
- M.Sc.** Computer Science, Leiden University, The Netherlands (April 2005)
- B.Sc.** Computer Science, University of Crete, Greece (July 2002)

Other Professional Experience

- NICTA, Sydney, Australia** (August 2008)
Visiting researcher in the ERTOS group at the Neville Roach Lab (NRL)
- Institute for Infocomm Research, Singapore** (May 2008 – July 2008)
Visiting Researcher in the Internet Security Lab
- Microsoft Research at Cambridge, UK** (April 2007 – June 2007)
Intern
- Intel Research at Cambridge, UK** (September 2004 – January 2005)
Intern
- Leiden University, The Netherlands** (September 2003 - July 2004)
Research assistant
- Internet Hellas, Greece** (June 2001 - August 2001)
Summer trainee
- ATLANTIS group, Greece** (November 1999 - February 2002)
Web and application developer, system administrator
- UCnet University of Crete, Greece** (March 2000 - September 2000)
Assistant system administrator
- E.L.K.E. University of Crete, Greece** (December 1999 - February 2000)
Assistant system administrator

Grants and Awards

Paper Distinctions

- Outstanding paper award** at ACSAC 2015 (December 2015)
“ShrinkWrap: VTable Protection without Loose Ends”
Istvan Haller, Enes Göktaş, Elias Athanasopoulos, Georgios Portokalidis, and Herbert Bos

DCSRA 2015 winner (March 2015)

Our paper was unanimously selected by the jury as excellent Dutch Cyber Security Research paper
“Out Of Control: Overcoming Control-Flow Integrity”

Enes Göktaş, Elias Athanasopoulos, Herbert Bos, and Georgios Portokalidis

Best paper award at the 6th IWSEC (November 2011)

“REASSURE: A Self-contained Mechanism for Healing Software Using Rescue Points”

Georgios Portokalidis and Angelos D. Keromytis

Grants

PI (lead), “ABIDES: Adaptive BINARY Debloating and Security” (September 2017 – August 2020)
ONR, **\$3,243,244** (Stevens \$1,052,376)

PI, “Trails: Efficient Data-Flow Tracking Through (September 2016 – August 2018)
HW-assisted Parallelization” DARPA, **\$462,419**

PI, “Adapting Static and Dynamic Program Analysis to (March 2016 – February 2019)
Effectively Harden Debloated Software”, ONR, **\$467,543**

PI (lead Columbia University), “MINESTRONE (September 2013 – November 2014)
Task: Automatic Discovery of Rescue Points Using Static and Dynamic Analysis” phase 3 extension, IARPA,
\$65,796

PI (lead Columbia University), “MINESTRONE (September 2012 – November 2014)
Task: Automatic Discovery of Rescue Points Using Static and Dynamic Analysis”, IARPA, **\$247,641**

Publications

Peer-reviewed Conferences and Workshops

1. **FFPF: Fairly Fast Packet Filters**

Herbert Bos, Willem Bruijn, Mihai Cristea, Trung Nguyen, and Georgios Portokalidis

*Proceedings of the USENIX Symposium on Operating Systems Design and Implementation (OSDI),
San Francisco, CA, USA, December 2004 (14%)*

2. **Argos: Securing IP Communications Against Zero-Day Attacks**

Georgios Portokalidis, Asia Slowinska, and Herbert Bos

Proceedings of NLUUG Unix Users Group Annual Conference, The Netherlands, April 2006 (invited)

3. **Argos: an Emulator for Fingerprinting Zero-Day Attacks**

Georgios Portokalidis, Asia Slowinska, and Herbert Bos

Proceedings of ACM SIGOPS EUROSYS, Leuven, Belgium, April 2006 (20%)

4. **Argos: Emulated Hardware Support to Fingerprint Zero-Day Attacks by Means of Dynamic Data Flow Analysis**

Georgios Portokalidis, Asia Slowinska, and Herbert Bos

*Proceedings of the Annual Conference of the Advanced School for Computing and Imaging (ASCI),
Belgium, June 2006*

5. **Eudaemon: Involuntary and On-Demand Emulation Against Zero-Day Exploits**

Georgios Portokalidis and Herbert Bos

*Proceedings of the ACM SIGOPS/EuroSys European Conference on Computer Systems, Glasgow, Scotland,
April 2008 (18%)*

6. **iLeak: a Lightweight System for Detecting Inadvertent Information Leaks**

Vasileios P. Kemerlis, Vasilis Pappas, Georgios Portokalidis, and Angelos D. Keromytis

*Proceedings of the European Conference on Computer Network Defense (EC2ND), Berlin, Germany,
October 2010*

7. **Fast and Practical Instruction-Set Randomization for Commodity Systems**
Georgios Portokalidis and Angelos D. Keromytis
Proceedings of the Annual Computer Security Applications Conference (ACSAC), Austin, TX, USA, December 2010 (17%)
8. **Paranoid Android: Versatile Protection For Smartphones**
Georgios Portokalidis, Philip Homburg, Kostas Anagnostakis, and Herbert Bos
Proceedings of the Annual Computer Security Applications Conference (ACSAC), Austin, TX, USA, December 2010 (17%)
9. **Global ISR: Toward a Comprehensive Defense Against Unauthorized Code Execution**
Georgios Portokalidis and Angelos D. Keromytis
Proceedings of the ARO Workshop on Moving Target Defense, Fairfax, VA, USA, January 2011
10. **Detecting Traffic Snooping in Tor Using Decoys**
Sambuddho Chakravarty, Michalis Polychronakis Georgios Portokalidis, and Angelos D. Keromytis
Proceedings of the International Symposium on Recent Advances in Intrusion Detection (RAID), Menlo Park, CA, USA, September 2011 (23%)
11. **Taint-Exchange: a Generic System for Cross-process and Cross-host Taint Tracking**
Angeliki Zavou, Georgios Portokalidis, and Angelos D. Keromytis
Proceedings of the International Workshop on Security (IWSEC), Tokyo, Japan, November 2011
12. **REASSURE: A Self-contained Mechanism for Healing Software Using Rescue Points**
Georgios Portokalidis and Angelos D. Keromytis
*Proceedings of the International Workshop on Security (IWSEC), Tokyo, Japan, November 2011 **Best paper award***
13. **A Multilayer Overlay Network Architecture for Enhancing IP Service Availability Against DoS**
Dimitris Geneiatakis, Georgios Portokalidis, and Angelos D. Keromytis
Proceedings of the International Conference on Information Systems Security (ICISS), Kolkata, India, December 2011 (22.8%)
14. **A General Approach for Efficiently Accelerating Software-based Dynamic Data Flow Tracking on Commodity Hardware**
Kangkook Jee, Georgios Portokalidis, Vasileios P. Kemerlis, Soumyadeep Ghosh, David I. August, and Angelos D. Keromytis
Proceedings of the Annual Network and Distributed System Security Symposium (NDSS), San Diego, CA, USA, February 2012 (17.8%)
15. **libdft: Practical Dynamic Data Flow Tracking for Commodity Systems**
Vasileios P. Kemerlis, Georgios Portokalidis, Kangkook Jee, and Angelos D. Keromytis
Proceedings of the ACM SIGPLAN/SIGOPS International Conference on Virtual Execution Environments (VEE), London, UK, March 2012
16. **kGuard: Lightweight Kernel Protection against Return-to-user Attacks**
Vasileios P. Kemerlis, Georgios Portokalidis, and Angelos D. Keromytis
Proceedings of the USENIX Security Symposium, Bellevue, WA, USA, August 2012 (19.4%)
17. **Adaptive Defenses for Commodity Software through Virtual Application Partitioning**
Dimitris Geneiatakis, Georgios Portokalidis, Vasileios P. Kemerlis, and Angelos D. Keromytis
Proceedings of the ACM Conference on Computer and Communications Security, Raleigh, NC, USA, October 2012 (18.9%)
18. **Exploiting Split Browsers for Efficiently Protecting User Data**
Angeliki Zavou, Elias Athanasopoulos, Georgios Portokalidis, and Angelos D. Keromytis
Proceedings of CCSW: The ACM Cloud Computing Security Workshop, Raleigh, NC, USA, October 2012

19. **Self-Healing Multitier Architectures Using Cascading Rescue Points**
Angeliki Zavou, Georgios Portokalidis, and Angelos D Keromytis
Proceedings of the Annual Computer Security Applications Conference (ACSAC), Orlando, FL, USA, December 2012 (19%)
20. **Cloudopsy: an Autopsy of Data Flows in the Cloud**
Angeliki Zavou, Vasilis Pappas, Vasileios P. Kemerlis, Michalis Polychronakis, Georgios Portokalidis, and Angelos D. Keromytis
Proceedings of the International Conference on Human-Computer Interaction (HCI), Las Vegas, NV, USA, July 2013
21. **ShadowReplica: Efficient Parallelization of Dynamic Data Flow Tracking**
Kangkook Jee, Vasileios P. Kemerlis, Angelos D. Keromytis, and Georgios Portokalidis
Proceedings of the ACM Conference on Computer and Communications Security (CCS), Berlin, Germany, November 2013 (19.8%)
22. **SAuth: Protecting User Accounts from Password Database Leaks**
Georgios Kontaxis, Elias Athanasopoulos, Georgios Portokalidis, and Angelos D. Keromytis
Proceedings of the ACM Conference on Computer and Communications Security (CCS), Berlin, Germany, November 2013 (19.8%)
23. **On the Effectiveness of Traffic Analysis Against Anonymity Networks Using Flow Records**
Sambuddho Chakravarty, Marco V. Barbera, Georgios Portokalidis, Michalis Polychronakis, and Angelos D. Keromytis
Proceedings of the Passive and Active Measurement (PAM) Conference, Los Angeles, CA, USA, March 2014 (31.5%)
24. **The Best of Both Worlds. A Framework for the Synergistic Operation of Host and Cloud Anomaly-based IDS for Smartphones**
Dimitrios Damopoulos, Georgios Kambourakis, and Georgios Portokalidis
Proceedings of the European Workshop on System Security (EUROSEC), Amsterdam, The Netherlands, April 2014 (42.9%)
25. **Out Of Control: Overcoming Control-Flow Integrity**
Enes Göktaş, Elias Athanasopoulos, Herbert Bos, and Georgios Portokalidis
Proceedings of the IEEE Symposium on Security and Privacy, San Jose, CA, USA, May 2014 (13.6%)
26. **Size Does Matter - Why Using Gadget-Chain Length to Prevent Code-reuse Attacks is Hard**
Enes Göktaş, Elias Athanasopoulos, Herbert Bos, Michalis Polychronakis, and Georgios Portokalidis
Proceedings of the USENIX Security Symposium, San Diego, CA, USA, August 2014 (19.1%)
27. **The Devil is in the Constants: Bypassing Defenses in Browser JIT Engines**
Michalis Athanasakis, Elias Athanasopoulos, Michalis Polychronakis, Georgios Portokalidis, and Sotiris Ioannidis
Proceedings of the Network and Distributed System Security (NDSS) Symposium, San Diego, CA, USA, February 2015 (19.6%)
28. **GPU-Disasm: A GPU based x86 Disassembler**
Evangelos Ladakis, Giorgos Vasiliadis, Michalis Polychronakis, Sotiris Ioannidis, and Georgios Portokalidis
Proceedings of the Information Security Conference (ISC), Trondheim, Norway, September 2015 (29.1%)
29. **WYSISNWIV: What You Scan Is Not What I Visit**
Qilang Yang, Dimitrios Damopoulos, and Georgios Portokalidis
Proceedings of the International Symposium on Recent Advances in Intrusion Detection (RAID), Kyoto, Japan, November 2015 (22.69%)

30. **Speculative Memory Checkpointing**

Dirk Vogt, Armando Miraglia, Georgios Portokalidis, Herbert Bos, Andrew S Tanenbaum, and Cristiano Giuffrida

Proceedings of the ACM/IFIP/USENIX Middleware Conference, Vancouver, Canada, December 2015

31. **ShrinkWrap: VTable Protection without Loose Ends**

Istvan Haller, Enes Göktas, Elias Athanasopoulos, Georgios Portokalidis, and Herbert Bos

Proceedings of the Annual Computer Security Applications Conference (ACSAC), Los Angeles, CA, USA, December 2015 (24.4%) Best student paper award

32. **Undermining Entropy-based Information Hiding (And What to do About it)**

Enes Göktas, Robert Gawlik, Benjamin Kollenda, Elias Athanasopoulos, Georgios Portokalidis, Cristiano Giuffrida, and Herbert Bos

Proceedings of the USENIX Security Symposium, Austin, TX, USA, August 2016 (15.55%)

33. **NaCIDroid: Native Code Isolation for Android Applications**

Elias Athanasopoulos, Vasileios P. Kemerlis, Georgios Portokalidis, and Angelos Keromytis

Proceedings of the European Symposium on Research in Computer Security (ESORICS), Heraklion, Crete, Greece, September 2016 (21%)

34. **Bypassing CLANG's Safestack for Fun and Profit**

Aggelos Oikonomopoulos, Benjamin Kollenda, Cristiano Giuffrida, Elias Athanasopoulos, Enes Göktas, Georgios Portokalidis, Herbert Bos, and Robert Gawlik

Black Hat Europe, London, UK, November 2016

35. **Location-enhanced Authentication using the IoT**

Ioannis Agadakos, Per Hallgren, Dimitrios Damopoulos, Andrei Sabelfeld, and Georgios Portokalidis

Proceedings of the Annual Computer Security Applications Conference (ACSAC), Los Angeles, CA, USA, December 2016 (22.8%)

36. **Techu: Open and Privacy-preserving Crowdsourced GPS for the Masses**

Ioannis Agadakos, Jason Polakis, and Georgios Portokalidis

Proceedings of the ACM International Conference on Mobile Systems, Applications, and Services (MobiSys), Niagara Falls, NY, USA, June 2017 (18%)

Journals

1. **SweetBait: Zero-hour worm detection and containment using low- and high-interaction honeypots**

Georgios Portokalidis and Herbert Bos

Elsevier Journal on Computer Networks, Special Issue on Security through Self-Protecting and Self-Healing Systems (Volume 51, Issue 5, Pages 1256–1274, April 2007)

2. **kGuard: Lightweight Kernel Protection**

Vasileios P. Kemerlis, Georgios Portokalidis, Elias Athanasopoulos, and Angelos D. Keromytis

USENIX/login: Magazine (Volume 37, Issue 6, Pages 7–14, December 2012)

3. **Detection and Analysis of Eavesdropping in Anonymous Communication Networks**

Sambuddho Chakravarty, Georgios Portokalidis, Michalis Polychronakis, and Angelos D. Keromytis

International Journal of Information Security (IJIS) (Volume 14, Issue 3, Pages 205–220, June 2015)

Books/Book Chapters

1. **Research in Attacks, Intrusions, and Defenses (RAID)**

Angelos Stavrou, Herbert Bos, and Georgios Portokalidis (editors)

Lecture Notes in Computer Science (LNCS), Springer, September 2014

2. **Special Issue on Security and Privacy in Unified Communications: Challenges and Solutions**

Georgios Karopoulos, Georgios Portokalidis, Josep Domingo-Ferrer, Ying-Dar Lin, Dimitris Geneiatakis, and Georgios Kambourakis (editors)

Computer Communications, Elsevier, September 2015

Technical Reports

1. **Study and Bridging of Peer-to-Peer File Sharing Systems**

Georgios Portokalidis, Evangelos P. Markatos, and Manolis Marazakis

Technical report 312, ICS-FORTH, Heraklion, Crete, Greece, October 2002

2. **Prospector: a Protocol-Specific Detector of Polymorphic Buffer Overflows**

Asia Slowinska, Georgios Portokalidis, and Herbert Bos

Technical report IR-CS-023, Vrije Universiteit, Amsterdam, The Netherlands, June 2006

3. **Multi-tier intrusion detection by means of replayable virtual machines**

Auke Folkerts, Georgios Portokalidis, and Herbert Bos

Technical report IR-CS-047, Vrije Universiteit, Amsterdam, The Netherlands, August 2008

Talks and Panels

Talks

1. **Argos: an Emulator for Fingerprinting Zero-Day Attacks** (April 2006)
ACM SIGOPS EUROSYS, Leuven, Belgium
2. **Argos: Securing IP Communications Against Zero-Day Attacks** (April 2006)
NLUUG Unix Users Group Annual Conference, The Netherlands
3. **Argos: Emulated Hardware Support to Fingerprint Zero-Day Attacks by Means of Dynamic Data Flow Analysis** (June 2006)
Annual Conference of the Advanced School for Computing and Imaging (ASCI), Belgium
4. **Argos: an Emulator for Fingerprinting Zero-Day Attacks** (July 2006)
Invited talk IBM Research, Zürich, Switzerland
5. **Eudaemon: Involuntary and On-Demand Emulation Against Zero-Day Exploits** (April 2008)
ACM SIGOPS/EuroSys European Conference on Computer Systems, Glasgow, Scotland
6. **Tutorial on Information Flow Tracking** (December 2008)
European Conference on Computer Network Defense (EC2ND), Dublin, Ireland
7. **Heavyweight Protection for Lightweight Devices** (May 2009)
Internet Research Group, Telefonica Research, Barcelona, Spain
8. **iLeak: a Lightweight System for Detecting Inadvertent Information Leaks** (October 2010)
European Conference on Computer Network Defense (EC2ND), Berlin, Germany
9. **Paranoid Android: Versatile Protection For Smartphones** (December 2010)
Annual Computer Security Applications Conference (ACSAC), Austin, TX, USA
10. **Paranoid Android: Versatile Protection For Smartphones** (December 2011)
AT&T Security Research Center, New York, NY, USA
11. **REASSURE: A Self-contained Mechanism for Healing Software Using Rescue Points** (November 2011)
International Workshop on Security (IWSEC), Tokyo, Japan

12. **Protecting Commodity Software** (January 2012)
Stevens Institute of Technology, Hoboken, NJ, USA
13. **Protecting Commodity Software** (March 2012)
University of California, Riverside, CA, USA
14. **Protecting Commodity Software** (June 2012)
University of Twente, Enschede, The Netherlands
15. **Protecting Commodity Software** (April 2013)
Northeastern University, Boston, MA, USA
16. **From Hacking for Fun to Cyber-crime and Cyber-warfare, and How Can We Stop It** (November 2013)
Vrije Universiteit, Amsterdam, The Netherlands
17. **From Hacking for Fun to Cyber-crime and Cyber-warfare, and How Can We Stop It** (April 2014)
Kaspersky “CyberSecurity for the Next Generation”, The Americas Round 2014, Washington D.C.
18. **How about some control-flow integrity** (July 2014)
FORTH-ICS, Heraklion, Crete, Greece
19. **Evaluation Tools and Metrics for Control-flow Integrity Defenses** (July 2015)
Dagstuhl seminar “The Continuing Arms Race: Code-Reuse Attacks and Defenses”, Dagstuhl, Germany
20. **WYSISNWIV: What You Scan Is Not What I Visit** (November 2015)
International Symposium on Recent Advances in Intrusion Detection (RAID), Kyoto, Japan
21. **Out of Control** (October 2016)
Vrije Universiteit, Amsterdam, The Netherlands
22. **Improving Software Resiliency Against Code-Reuse Attacks** (October 2016)
Athens University of Economics and Business
23. **Improving Software Resiliency Against Code-Reuse Attacks** (October 2016)
Aristotle University of Thessaloniki
24. **Securing Financial Transactions with IoT-powered Location-based Authentication** (May 2017)
FinCyberSec Conference, Stevens Institute of Technology

Panels

1. **Future and Emerging Threats in Information and Communication Technology Infrastructures** (Panelist) (2008)
European Conference on Computer and Network Defense (December EC2ND)
2. **Emerging Research Directions** (Panelist) (March 2009)
European Workshop on System Security (EUROSEC)
3. **Security in Wireless Networks and Mobile Devices** (Panelist) (November 2014)
In the 28th IEEE Annual Computer Communications Workshop (CCW)

Students and Postdocs

Current Ph.D. Students

- Ioannis Agadacos (January 2015 – present)
Samaneh Berenjian (September 2016 – present)

Postdoctoral Students/Researchers

Dimitrios Damopoulos (September 2013 – August 2015)

Visiting Scholars

Enes Goktas (January 2017 – July 2017)
(July 2015 – October 2015)
(June 2013 – November 2013)

Evangelos Ladakis (July 2014 – September 2014)

MS Students

Xi Luo (September 2013 – May 2014)

Undergraduate Students

Peter Krasinsky, research assistant (June 2017 – August 2017)

Nicholas Cyprus, research assistant (June 2017 – August 2017)

Yongxin Geng, Stevens I&E scholar (May 2016 – August 2016)

Dylan Luzzolino, Stevens Pinnacle scholar (May 2016 – July 2016)

Min Su Park, Stevens CS Major (May 2016 – June 2016)

Zara Graves, Stevens summer scholar (June 2013 – August 2013)

High-school Students

Benjamin Iofel, high-school student intern (September 2014 – May 2015)

Academic Service/Reviewing

Program Committee Service

ACM Symposium on Information, Computer and Communications Security (ASIACCS) (2014, 2015, 2017, 2018)

ACM Conference on Computer and Communications Security (CCS) (2017)

USENIX Security Symposium (2015 – 2017)

IEEE European Symposium on Security and Privacy (EuroS&P) (2017)

ACM Cloud Computing Security Workshop (CCSW) (2016)

International Conference on Distributed Computing Systems (ICDCS) (2016)

European Workshop on System Security (EUROSEC) (2014 – 2015)

Network and Distributed System Security Symposium (NDSS) (2015)

Annual Computer Security Applications Conference (ACSAC) (2012 – 2015)

International Symposium on Research in Attacks, Intrusions and Defenses (RAID) (2014 – 2015)

International Symposium on Engineering Secure Software and Systems (ESSoS) (2015)

APWG Symposium on Electronic Crime Research (eCrime) (2014)

Kaspersky “CyberSecurity for the Next Generation”, The Americas Round (2014)

International Conference on Security and Privacy in Communication Networks (SecureComm) (2013 – 2014)

IEEE/IFIP International Conference on Embedded and Ubiquitous Computing (EUC) (2013)

European Conference on Computer Network Defense (EC2ND) (2011)
International Conference on Cryptology And Network Security (CANS) (2010)
ACM EuroSys Conference (*Shadow PC*) (2010)

Grant Proposal Review

NSF (2015, 2017)
Reviewer and panelist for NSF

Other Reviewing

I have been invited to review and have reviewed papers for the following conferences and journals: IWSEC'10, ACSAC'11, ESORICS'11, RAID'11, ACNS'12, CANS'12, NDSS'12, CCS'12, FC2013, *and* journals: IET Information Security '10, '11, '12, Information Security Journal '12, ACM transactions of Information and System Security (TISSEC) '12 and '13, KSII Transactions on Internet and Information Systems '13, Elsevier Computers & Security 2013 & 2017, IEEE Transactions on Reliability '13, IEEE Communications Letters '13 and '14, IEEE Transactions on Dependable and Secure Computing '14, IEEE S&P '14, and De gruyter it - Information Technology '16.

Program Organization

Posters Chair, 37th IEEE Symposium on Security and Privacy (2016)
Publication co-chair, 17th International Symposium on Research in Attacks, Intrusions and Defenses (RAID) (2014)
Organizing Committee, Security and Privacy Day, Stevens Institute of Technology (Spring 2013)

Ph.D. Committee Service

Keith D. Willet, Stevens Institute of Technology (November 2016)
Kangkook Jee, Columbia University (June 2015)
Angeliki Zavou, Columbia University (May 2014)
Asia Slowinska, Vrije Universiteit Amsterdam (May 2012)

Press

Observer: “Do Captchas Make it Easy to ID Anonymous Web Users?” (July 2016)
Brady Dale talks about CloudFlare captchas for Tor users and our work on Tor-traffic de-anonymization

New York Post: “How the US is losing the escalating cyberwar” (December 2014)
I spoke to Jonathon M. Trugman after the 2014 SONY hack

Slashdot, Hackernews, nu.nl, etc. (November 2014)
The web talks about our work on Tor traffic de-anonymization

“Virtual Honeypots: From Botnet Tracking to Intrusion Detection” (July 2007)
Niels Provos and Thorsten Holz have written a book about Honeypots that writes in some detail about Argos

USENIX ’;Login:’ (October 2007)
Sam Stover writes about Argos

Bright magazine: Feature: “Labrats” (April 2006)
Another Dutch article about Argos

Computable: Opsporing Verzocht (February 2006)
Dutch article about Argos

Teaching

Stevens Institute of Technology

CS-676 Advanced Topics in Systems Security

Spring 2017 (on campus): 2 students (4/4)

CS-576 Systems Security

Fall 2016 (on campus): 16 students (3.38/4)

CS-497-S Independent Study

Fall 2016 (on campus): 1 student (4/4)

CS-392-A Systems Programming

Spring 2017 (on campus): 21 students (1.55/4), Spring 2016 (on campus): 25 students (2.74/4)

CS-576 Secure Systems

Fall 2015 (on campus): 15 students (3.62/4), Fall 2014 (on campus): 15 students (3.83/4)

CS-577 Cybersecurity Lab

Fall 2015 (on campus): 15 students (3.62/4), Fall 2014 (on campus): 15 students (3.78/4)

CS-695 Host Forensics

Spring 2014 (on campus): 6 students (3.67/4), Spring 2013 (on campus): 3 students (4/4)

CS-181 Introduction to Computer Science, Honors I

Fall 2013 (on campus): 19 students (2.54/4)

CS-801-S Special Problem in CS for PhD students

Fall 2014 (on campus): 1 student

CS-800-S Special Problem in Computer Science for MS students

Fall 2013 (on campus): 1 student

CS-960-S Research in Computer Science

Spring 2017 (on campus): 2 students (4/4), Fall 2016 (on campus): 2 students (4/4), Spring 2016 (on campus): 2 students, Fall 2015 (on campus): 2 students, Spring 2015 (on campus): 2 students, Fall 2014 (on campus): 1 student, Spring 2014 (on campus): 1 student, Fall 2013 (on campus): 1 student

CS-397 Outreach Participation

Spring 2015 (on campus): 1 student, Fall 2014 (on campus): 4 students, Spring 2014 (on campus): 4 students (4/4), Fall 2013 (on campus): 5 students (4/4)

Vrije Universiteit Amsterdam

Practical courses for high-school students

(Spring 2006, 2007 & 2009)

Computer Science Department, Vrije Universiteit, The Netherlands

Stevens Service

Institutional

SES Committee on Committees

(2014 – 2016)

Departmental

Undergraduate advisor for CS majors

(Fall 2015 – Spring 2016, Fall 2017 – now)

Communications committee (chair)

(Fall 2016 – now)

Stevens Cyber Defense Team (Coach) (2014-2017)
Coached a team of Stevens students that participated in the regional collegiate cyber defense competition (CCDC): NECCDC 2014, NECCDC 2015, NECCDC 2016 (qualified), and MACCDC 2017.
Potential undergraduates visit day (Fall 2017)
MS in Cybersecurity admissions committee (chair) (Fall 2016)
PhD committee (member) (Spring 2013 – now)
Graduate advisor for MS in cybersecurity (Fall 2016)
Hiring committee (member) (2015 – 2016)
Undergraduate advisor for cybersecurity majors (Fall 2016)
Seminar coordinator (Fall 2013 – Spring 2016)
Communications committee (member) (Spring 2013 – Spring 2016)
Admissions committee (member) (Fall 2015)
Stevens scholars tour for CS (2014)

Other

Bergen County Technical High School (Fall 2016 - now)
Member of the advisory board for the Computer Science major