

# Emiliano De Cristofaro

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## Research Interests

- Privacy and Applied Cryptography
- Systems and Network Security
- Web and Mobile Measurements

## Education

- **PhD in Networked Systems**, University of California, Irvine (Advisor: Gene Tsudik)  
Fall 2007 – Summer 2011
- **BSc Honors** (5-year program) in Computer Science, *summa cum laude*, University of Salerno, Italy  
Fall 2000 – Summer 2005

## Positions

- **October 2013 – ongoing: University College London (UCL), Senior Lecturer (Associate Professor)**  
Funding:
  - EU H2020 MSCA-ITN, Privacy & Usability Innovative Training Network, “Privacy & Us” (PI, total funding EUR 3,376,517, UCL funding: EUR 546,575)
  - EU H2020 MSCA-RISE, Enhancing Security and Privacy in the Social Web, “ENCASE” (PI, total funding: EUR 2,160,000, UCL funding: EUR 310,500)
  - Xerox University Affairs Committee Award and Research Councils UK IMPACT Award, “Secure Collaborative Analytics” (PI, total funding: £120,000)
  - EPSRC iSense Exploratory Grant, “A technical framework for enabling and supporting data donors for medical research” (co-PI, £120,000)
  - Google Faculty Research Award, “Enabling Progress in Genomic Research via Privacy-Preserving Data Sharing” (PI, \$70,000)
  - Royal Society Netwon Fund Grant, “Usable Cryptographic Authentication” (co-PI, total funding: £30,000)
- **September 2011 – September 2013: PARC (a Xerox company), Member of Research Staff**
  - Internal and commercial projects: secure and privacy-preserving analytics; security and privacy in healthcare and geonomics; security and privacy in future Internet architectures; usable enterprise security
  - US Government projects: PI on DoE-funded National Electric Sector Cybersecurity Organization Resource program (2011–2013); co-PI on several NSF and IARPA funded projects
- **September 2007 – August 2011: University of California, Irvine, Graduate Student Research Assistant**
  - IARPA’s Automatic Privacy Protection (APP) program; co-designed and implemented the **fastest** protocols among the four teams participating in the program
  - Co-authored several academic publications on secure information sharing and co-designed the first protocol for privacy-preserving testing on whole human genomes
  - Teaching assistant for undergraduate and graduate security classes
- **June – September 2010: Nokia Research Center, Lausanne, PhD Intern**
  - Worked with Dr. Imad Aad and Dr. Valterri Niemi; designed, implemented, and evaluated several protocols for security and privacy protection in smartphone applications.
  - Co-authored one US patent and one paper published in the top pervasive computing conference (PERCOM)
- **September – December 2009: INRIA Rhone Alpes, Grenoble, France, PhD Intern**
  - Worked with Dr. Claude Castelluccia, discovered and demonstrated an inference attack to reconstruct search history of Google users (published at PETS)
  - Designed and implemented a system for protecting long-term privacy of published data (published at ICNP)
- **June – September 2008: NEC Europe Research Lab, Heidelberg, Germany, PhD Intern**
  - Worked with Dr. Westhoff, designed and implemented a framework for resilient data aggregation in sensor networks
  - Co-authored one paper published in the top wireless security conference (WiSec)

- **January 2006 – August 2007: University of Salerno, Italy, Research Assistant**
  - Worked with Prof. C. Blundo, Prof. G. Persiano, and Prof. V. Auletta, co-authored several academic papers
  - Research assistant on EU-funded Ecrypt and Aeolus projects

## Awards

- **PARC Excellence Award.** Outstanding research performance in 2012, only 1 awarded per group
- **UC Irvine's Dissertation Fellowship,** Fall 2010 (\$10,000), only 1 awarded per department
- **UC Irvine's Dean's Fellowship.** 4-year PhD financial support (2007–2011), only 5 awarded per department
- **Summa Cum Laude Honors,** University of Salerno, Italy, top 1% in graduating class
- **EU Erasmus Scholarship.** Spent 1 semester at the University of Portsmouth, UK, Fall 2004

## Publications

- G. Hine, J. Onalapo, E. De Cristofaro, N. Kourtellis, I. Leontiadis, R. Samaras, G. Stringhini, J. Blackburn  
**Kek, Cucks, and God Emperor Trump: A Measurement Study of 4chan's Politically Incorrect Forum and Its Effects on the Web**  
11th International AAAI Conference on Web and Social Media (ICWSM 2017)  
Media Coverage: The Independent, The Conversation, MIT Technology Review, Motherboard, La Stampa (in Italian), La Repubblica (in Italian), BoingBoing, Pacific Standard
- S. Farooqi, M. Ikram, E. De Cristofaro, A. Friedman, G. Jourjon, M.A. Kaafar, M.Z. Shafiq  
**Characterizing Key Stakeholders in an Online Black-Hat Marketplace**  
12th IEEE/APWG Symposium on Electronic Crime Research (eCrime 2017)
- D. Chatzakou, N. Kourtellis, J. Blackburn, E. De Cristofaro, G. Stringhini, A. Vakali  
**Measuring #GamerGate: A Tale of Hate, Sexism, and Bullying**  
2nd WWW Workshop on Computational Methods for CyberSafety (CyberSafety 2017)
- S. Sajadmanesh, S. Jafarzadeh, S.A. Ossia, H.R. Rabiee, H. Haddadi, Y. Mejova, M. Musolesi, E. De Cristofaro, G. Stringhini  
**Kissing Cuisines: Exploring Worldwide Culinary Habits on the Web**  
26th International World Wide Web Conference Web Science Track (WWW 2017)  
Media Coverage: MIT Tech Review, The Independent, ReachMD, France 24 (in French), Sciences et Avenir (in French)
- E. Mariconti, L. Onwuzurike, P. Andriotis, E. De Cristofaro, G. Ross, G. Stringhini  
**MaMaDroid: Detecting Android Malware by Building Markov Chains of Behavioral Models**  
24th Network and Distributed System Security Symposium (NDSS 2017)  
Media Coverage: The Morning Paper
- H. Haddadi, R. Nithyanand, S. Khattak, M. Javed, N. Vallina-Rodriguez, M. Falahrastegar, J.E. Powles, E. De Cristofaro, S.J. Murdoch  
**The Adblocking Tug-of-War**  
USENIX ;login: Magazine, Winter 2016, Vol. 41, No. 4 (:login: 2016)
- A. Pyrgelis, E. De Cristofaro, G. Ross  
**Privacy-Friendly Mobility Analytics using Aggregate Location Data**  
24th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL 2016)
- E. De Cristofaro, K. Liang, Y. Zhang  
**Privacy-Preserving Genetic Relatedness Test**  
To appear in 3rd International Workshop on Genome Privacy and Security (GenoPri 2016)
- R. Nithyanand, S. Khattak, M. Javed, N. Vallina-Rodriguez, M. Falahrastegar, J. E. Powles, E. De Cristofaro, H. Haddadi, S.J. Murdoch  
**Ad-Blocking and Counter Blocking: A Slice of the Arms Races**  
6th USENIX Workshop on Free and Open Communications on the Internet (FOCI 2016)
- H. Asghar, L. Melis, C. Soldani, E. De Cristofaro, M.A. Kaafar, L. Mathy  
**SplitBox: Toward Efficient Private Network Function Virtualization**  
3rd ACM SIGCOMM Workshop on Hot Topics in Middleboxes and Network Function Virtualization (HotMiddleBox 2016)
- L. Melis, G. Danezis, E. De Cristofaro  
**Efficient Private Statistics with Succinct Sketches**  
23rd Network and Distributed System Security Symposium (NDSS 2016)

- L. Melis, H. Asghar, E. De Cristofaro, D. Kaafar  
**Private Processing of Outsourced Network Functions: Feasibility and Constructions**  
 1st ACM Workshop on Security in Software Defined Networks & Network Function Virtualization (SDNNFVSEC 2016)
- L. Onwuzurike and E. De Cristofaro  
**Experimental Analysis of Popular Smartphone Apps Offering Anonymity, Ephemerality, and End-to-End Encryption**  
 1st NDSS Workshop on Understanding and Enhancing Online Privacy (UEOP 2016)
- K. Krol, M.S. Rahman, S. Parkin, E. De Cristofaro, E. Vasserman  
**An Exploratory Study of User Perceptions of Payment Methods in the UK and the US**  
 10th NDSS Workshop on Usable Security (USEC 2016)
- J. Freudiger, E. De Cristofaro, A. Brito  
**Controlled Data Sharing for Collaborative Predictive Blacklisting**  
 12th Conference on Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA 2015)
- M. Nagy, T. Bui, E. De Cristofaro, N. Asokan, J. Ott, A.R. Sadeghi  
**How Far Removed Are You? Scalable Privacy-Preserving Estimation of Social Path Length with Social PaL**  
 8th ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec 2015)
- L. Onwuzurike and E. De Cristofaro  
**Danger is my middle name: Experimenting with SSL Vulnerabilities in Android Apps**  
 8th ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec 2015)
- E. Ayday, E. De Cristofaro, J.P. Hubaux, G. Tsudik  
**Whole Genome Sequencing: Revolutionary Medicine or Privacy Nightmare**  
 IEEE Computer Magazine, Vol. 48, No. 2, February 2015  
 Presented as a poster at Usenix Security 2013 and available on ArXiv under the title “The Chills and Thrills of Whole Genome Sequencing”
- K. Krol, E. Philippou, E. De Cristofaro, M.A. Sasse  
**“They brought in the horrible key ring thing” – Analysing the Usability of Two-Factor Authentication in UK Online Banking**  
 9th NDSS Workshop on Usable Security (USEC 2015)
- A. Chaabane, T. Chen, M. Cunche, E. De Cristofaro, A. Friedman, M.A. Kaafar  
**Censorship in the Wild: Analyzing Web Filtering in Syria**  
 14th ACM Internet Measurement Conference (IMC 2014), *best paper runner-up*  
 Media Coverage: The Register, The Conversation, MIT Tech Review, Boing Boing, ACM Tech News, Physics Central, Motherboard, Newsweek, AlJazeera
- E. De Cristofaro, A. Friedman, G. Jourjon, M.A. Kaafar, M.Z. Shafiq  
**Paying for Likes? Understanding Facebook Like Fraud Using Honeypots**  
 14th ACM Internet Measurement Conference (IMC 2014)  
 Media Coverage: MIT Tech Review, Pacific Standard, The Telegraph, ACM Tech News, Yahoo Finance, Zero Hedge, Media Post
- G. Danezis and E. De Cristofaro  
**Fast and Private Genomic Testing for Disease Susceptibility**  
 12th ACM CCS Workshop on Privacy in the Electronic Society (WPES 2014)
- I. Bilogrevic, J. Freudiger, E. De Cristofaro, E. Uzun  
**What’s the Gist? Privacy-Preserving Aggregation of User Profiles**  
 19th European Symposium on Research in Computer Security (ESORICS 2014)
- F. Beato, E. De Cristofaro, K.B. Rasmussen  
**Undetectable Communication: The Online Social Networks Case**  
 12th IEEE Annual Conference on Privacy, Security and Trust (PST 2014)
- C. Blundo, E. De Cristofaro, P. Gasti  
**EsPRESSo: Efficient Privacy-Preserving Evaluation of Sample Set Similarity**  
 Journal of Computer Security, Vol. 22, No. 3, May 2014 (Submitted Oct 2012, Accepted Sep 2013)  
 Extended Abstract appeared in 7th ESORICS Workshop on Data Privacy Management (DPM 2012).
- E. De Cristofaro  
**Genomic Privacy and the Rise of a New Research Community**  
 IEEE Magazine on Security and Privacy, March/April 2014 Issue, Vol. 13, No. 1, 2014

- E. De Cristofaro  
**An Exploratory Ethnographic Study of Issues and Concerns with Whole Genome Sequencing**  
8th NDSS Workshop on Usable Security (USEC 2014)
- E. De Cristofaro, H. Du, J. Freudiger, G. Norcie  
**Two-Factor or not Two-Factor? A Comparative Usability Study of Two-Factor Authentication**  
8th NDSS Workshop on Usable Security (USEC 2014)
- M. Nagy, E. De Cristofaro, A. Dmitrienko, N. Asokan, A.R. Sadeghi  
**Do I Know You? - Efficient and Privacy-Preserving Common Friend-Finder Protocols and Applications**  
29th Annual Computer Security Applications Conference (ACSAC 2013)
- E. De Cristofaro, C. Soriente  
**Extended Capabilities for a Privacy-Enhanced Participatory Sensing Infrastructure (PEPSI)**  
IEEE Transactions on Information Forensics & Security. Vol.8, No. 12, 2013
- E. De Cristofaro, S. Faber, G. Tsudik  
**Secure Genomic Testing with Size- and Position-Hiding Private Substring Matching**  
12th ACM CCS Workshop on Privacy in the Electronic Society (WPES 2013)
- A. Chaabane, E. De Cristofaro, M.A. Kaafar, E. Uzun  
**Privacy in Content-Oriented Networking: Threats and Countermeasures**  
ACM Sigcomm Computer Communication Review (CCR) magazine, 2013  
Also invited to be presented at SIGCOMM 2013 as one of the two “Best CCR Papers.”
- G. Norcie, E. De Cristofaro, V. Bellotti  
**Bootstrapping Trust in Online Dating: Social Verification of Online Dating Profiles**  
Financial Cryptography and Data Security (FC) Workshop on Usable Security (USEC 2013)  
Media Coverage: MIT Tech Review
- A. Cardenas, R. Chow, E. De Cristofaro  
**Data Handling in the Smart Grid: Do We Know Enough?**  
IFIP International Conference on Critical Infrastructure Protection (CIP 2013)
- E. De Cristofaro, C. Soriente  
**Participatory Privacy: Enabling Privacy in Participatory Sensing**  
IEEE Network. Vol. 27, No. 1. January 2013. (Submitted March 2011, Accepted January 2012.)
- E. De Cristofaro, M. Manulis, B. Poettering  
**Private Discovery of Common Social Contacts**  
International Journal of Information Security (IJIS). Vol. 12, No. 1, 2013.  
Extended abstract appeared in ACNS 2011
- E. De Cristofaro, C. Soriente, G. Tsudik, A. Williams  
**Tweeting with Hummingbird: Privacy in Large-Scale Micro-Blogging OSNs**  
IEEE Data Engineering Bulletin. Vol. 35, Number 4, December 2012
- E. De Cristofaro, P. Gasti, G. Tsudik  
**Fast and Private Computation of Set Intersection Cardinality**  
11th International Conference on Cryptology and Network Security (CANS 2012)
- E. De Cristofaro, S. Faber, P. Gasti, Gene Tsudik  
**GenoDroid: Are Privacy-Preserving Genomic Tests Ready for Prime Times?**  
International Workshop on Privacy in Electronic Society (WPES 2012)  
Media Coverage: New Scientist, MIT Tech Review, PrivacySurgeon, IEEE Computer Society, ACM Tech News, OC Register, eWeek
- C. Blundo, E. De Cristofaro, P. Gasti  
**EsPRESSo: Efficient Privacy-Preserving Evaluation of Sample Set Similarity**  
International Workshop on Data Privacy Management (DPM 2012).
- E. De Cristofaro and R. Di Pietro  
**Adversaries and Countermeasures in Privacy-Enhanced Urban Sensing Systems**  
IEEE Systems Journal, Special Issue on Security and Privacy of Complex Systems, 2012.
- E. De Cristofaro, C. Soriente, G. Tsudik, A. Williams  
**Hummingbird: Privacy at the time of Twitter**  
IEEE Symposium on Security and Privacy (S&P 2012)

- E. De Cristofaro and G. Tsudik  
**Experimenting with Fast Private Set Intersection**  
International Conference on Trust and Trustworthy Computing (TRUST 2012)
- E. De Cristofaro, R. Di Pietro  
**Preserving Query Privacy in Urban Sensing Systems**  
International Conference on Distributed Computing and Networking (ICDCN 2012)
- M. Almishari, E. De Cristofaro, K. El Defrawy, G. Tsudik  
**Harvesting SSL Certificate Data to Identify Web-Fraud**  
International Journal of Network Security. Vol. 14, No. 6, 2012
- E. De Cristofaro  
**Sharing Sensitive Information with Privacy**  
University of California, PhD Dissertation, 2011
- C. Castelluccia, E. De Cristofaro, A. Francillon, M.A. Kaafar  
**EphPub: Toward Robust Ephemeral Publishing**  
IEEE Conference on Network Protocols (ICNP 2011)
- P. Baldi, R. Baronio, E. De Cristofaro, P. Gasti, G. Tsudik  
**Countering GATTACA: Efficient and Secure Testing of Fully Sequenced Human Genomes**  
ACM Conference on Computer and Communications Security (CCS 2011)  
Media Coverage: MIT Technology Review, New Scientist, Kurzweilai
- E. De Cristofaro, Y. Lu, G. Tsudik  
**Efficient Techniques for Privacy-Preserving Sharing of Sensitive Information**  
International Conference on Trust and Trustworthy Computing (TRUST 2011)
- E. De Cristofaro, C. Soriente  
**PEPSI: Privacy Enhancing Participatory Sensing Infrastructure**  
ACM Conference on Wireless Security (WiSec 2011)
- E. De Cristofaro, A. Durussel, I. Aad  
**Reclaiming Privacy for Smartphone Applications**  
IEEE International Conference on Pervasive Computing and Communications (PerCom 2011)
- G. Ateniese, E. De Cristofaro, G. Tsudik  
**(If) Size Matters: Size-Hiding Private Set Intersection**  
IACR International Conference on Practice and Theory of Public Key Cryptography (PKC 2011)
- E. De Cristofaro, J. Kim, and G. Tsudik  
**Linear-Complexity Private Set Intersection Protocols Secure in Malicious Model**  
IACR Conference on the Theory and Application of Cryptology and Information Security (Asiacrypt 2010)
- C. Castelluccia, E. De Cristofaro, and D. Perito  
**Private Information Disclosure from Web Searches**  
Privacy Enhancing Technologies Symposium (PETS 2010)  
Also appeared as a poster at IEEE Symposium on Security and Privacy (S&P 2010)  
Media Coverage: MIT Technology Review, ACM News, The Register
- E. De Cristofaro and J. Kim  
**Some like it private: Sharing Confidential Information based on Oblivious Authorization**  
IEEE Security and Privacy, July-August, 2010
- E. De Cristofaro and G. Tsudik  
**Practical Private Set Intersection Protocols with Linear Complexity**  
Financial Cryptography and Data Security (FC 2010)
- V. Auletta, C. Blundo, A. De Caro, E. De Cristofaro, G. Persiano, and I. Visconti  
**Increasing Privacy Threats in the Cyberspace: the Case of Italian e-Passports**  
Workshop on Lightweight Cryptography for Resource-Constrained Devices (WLC 2010)
- E. De Cristofaro, S. Jarecki, J. Kim, and G. Tsudik  
**Privacy-preserving Policy-based Information Transfer**  
Privacy Enhancing Technologies Symposium (PETS 2009)

- E. De Cristofaro, X.Ding, and G. Tsudik  
**Privacy-preserving Querying in Sensor Networks**  
IEEE International Conference on Computer Communications and Networks (ICCCN 2009)
- E. De Cristofaro, J.M.Bohli, and D.Westhoff  
**FAIR: Fuzzy-based Aggregation providing In-network Resilience for real-time WSNs**  
ACM Conference on Wireless Network Security (WiSec 2009)
- C. Blundo, E. De Cristofaro, A.Del Sorbo, C.Galdi, and G.Persiano  
**A Distributed Implementation of the Certified Information Access Service**  
European Symposium on Research in Computer Security (ESORICS 2008)
- C. Blundo, E. De Cristofaro, C.Galdi, and G.Persiano  
**Validating Orchestration of Web Services with BPEL and Aggregate Signatures**  
IEEE European Conference on Web Services (ECOWS 2008)
- E. De Cristofaro  
**A Secure and Privacy-Protecting Aggregation Scheme for Sensor Networks**  
IEEE International Symposium on a World of Wireless Mobile and Multimedia Networks (WoWMoM 2007)
- V. Auletta, C. Blundo, E. De Cristofaro, S.Cimato, and G. Raimato  
**Authenticated Web Services: A WS-Security Based Implementation**  
IFIP International Conference on New Technologies, Mobility, and Security (NTMS 2007)
- C. Blundo and E. De Cristofaro  
**A Bluetooth-based JXME infrastructure**  
International Symposium on Distributed Objects, Middleware, and Applications (DOA 2007)
- V. Auletta, C. Blundo, and E. De Cristofaro  
**A J2ME transparent middleware to support HTTP connections over Bluetooth**  
International Conference on Systems and Network Communications (ICSNC 2007)
- V. Auletta, C. Blundo, E. De Cristofaro, and G. Raimato  
**A lightweight framework for Web Services invocation over Bluetooth**  
IEEE International Conference on Web Services (ICWS 2006)
- V. Auletta, C. Blundo, E. De Cristofaro, and G. Raimato  
**Performance Evaluation for Web Services invocation over Bluetooth**  
ACM Conference on Modeling and Simulation of Wireless and Mobile Systems (MSWiM 2006)

## Patents

- Method and Apparatus for Preserving Privacy for Appointment Scheduling.  
US Patent 8,667,062. Co-inventors: Imad Aad, Valtteri Niemi, Anthony Durussel, Igor Bilogrevic, Jean-Pierre Hubaux
- Computer-Implemented System And Method For Verifying Online Dating Profiles.  
US Patent Application 20140156750. Co-inventors: Victoria Bellotti and Gregory Norcie
- Method and apparatus for performing distributed privacy-preserving computations on user locations.  
US Patent Application 20140372753. Co-inventors: Joan Melia Segui, Rui Zhang, Oliver Brdiczka, Ersin Uzun
- Method and Apparatus for Privacy and Trust Enhancing Sharing of Data for Collaborative Analytics.  
US Patent Application 20150161398. Co-inventors: Julien Freudiger, Ersin Uzun, Alejandro Brito, Marshall Bern
- Methods for Selection of Collaborators for Online Threat Mitigation.  
US Patent Application 20150286824. Co-inventors: Julien Freudiger, Ersin Uzun, Alejandro Brito, Marshall Bern
- Methods for Centralized Privacy-Preserving Collaborative Threat Mitigation.  
US Patent Application 20150286825. Co-inventors: Julien Freudiger, Ersin Uzun, Alejandro Brito, Marshall Bern
- Portable Proxy For Security Management And Privacy Protection And Method Of Use.  
US Patent Application 20150288719. Co-inventors: Julien Freudiger, Ersin Uzun, Golam Sarwar

## Service

- **PC Co-Chair:** GenoPri 2015, PETS 2014, PETS 2013, HotPETs 2012
- **PC Member:** ACM CCS 2017, WWW 2017, NDSS 2017, PETS 2017, AsiaCCS 2017, PMPML16, GenoPri 2016, EuroUSEC 2016, DTL 2016, WiSec 2016, IEEE S&P 2016, NDSS 2016, PKC 2016, PETS 2016, WPES 2015, IEEE S&P 2015, USEC 2015, Financial Crypto 2015, WPES 2014, WiSec 2014, GenoPri 2014, WWW 2014, ICCCN 2014, SESOC 2014, CANS 2013, PRISMS 2013, WISEC 2013, Financial Crypto 2013, HiCoNs 2013, SESOC 2013, CANS 2012, WPES 2012, CCSW 2012, PETS 2012, WISEC 2012, DPM 2012, ICCCN 2012, CANS 2011, TrustCom 2011, ISC 2010, ICSNC 2010
- **Journals:** Associated Editor for the Journal of Cybersecurity (Cryptography and Associated Topics). Reviewer: Journal of Computer Security, ACM Transactions on Information and System Security, IEEE Transactions on Parallel and Distributed Systems, IEEE Transactions on Knowledge and Data Engineering, IEEE Transactions on Mobile Computing, IEEE S&P Magazine, Journal of Systems and Software, Ad Hoc Networks, Computer Communications Journal, VLDB Journal, Data Mining and Knowledge Discovery.
- **Panels (Funding):** NSERC (Canada), NSF SaTC (USA), PRIN (Italy), FWO (Belgium), EPSRC Digital Catapult (UK)

## Keynote Talks

- **Microsoft Faculty Summit.** The Genomics Revolution: The Good, The Bad, and The Ugly (A Privacy Researcher's Perspective). Annual Microsoft Faculty Summit, Redmond, WA, July 2016
- **3TU Cyber Security Workshop Keynote.** Privacy-preserving Information Sharing: Tools and Applications, The Hague, Netherlands, November 2015
- **PrivaGen Keynote Speech.** The Genomics Revolution: The Good, The Bad, and The Ugly (A Privacy Researcher's Perspective). Tokyo, September 2015
- **ETAPS Keynote Speech.** The Genomics Revolution: Innovation Dream or Privacy Nightmare? London, April 2015
- **EPFL Summer Research Institute.** Countering GATTACA: Privacy-Preserving Genomic Testing. Lausanne, June 2013

## Invited Talks, Lectures, and Panels

- **FOSAD Summer School (6 hours).** Privacy-preserving Information Sharing: Tools and Applications. 16th International School on Foundations of Security Analysis and Design (FOSAD). Bertinoro, Italy, August/September 2016.
- **Microsoft Research.** Understanding, Characterizing, and Detecting Facebook Like Farms. Redmond, WA, July 2016
- **Sharif University.** Understanding, Characterizing, and Detecting Facebook Like Farms. Tehran, Iran, May 2016
- **University of Cambridge.** Understanding, Characterizing, and Detecting Facebook Like Farms. Cambridge, March 2016
- **UEOP Keynote Speech.** The Genomics Revolution: The Good, The Bad, and The Ugly (A Privacy Researcher's Perspective). NDSS Workshop on Understanding and Enhancing Online Privacy (UEOP 2016), San Diego, February 2016
- **Warwick University.** The Genomics Revolution: The Good, The Bad, and The Ugly (A Privacy Researcher's Perspective). February 2016
- **Dagstuhl Seminar: Genomic Privacy II.** Invited Speaker and Panelist. Dagstuhl, Germany, October 2015
- **Microsoft Research Cambridge.** Controlled Data Sharing for Collaborative Predictive Blacklisting. Cambridge, UK, August 2015
- **KU Leuven.** What's wrong with the Interwebs? Measuring Web Censorship and Fraud in Online Social Networks: Two Case Studies. Leuven, Belgium, May 2015
- **CPDP 2015.** Invited panelist: Privacy of the Genome: Challenges beyond traditional medical records. Computers, Privacy and Data Protection Conference (CPDP). Brussels, Belgium, January 2015
- **Oxford University.** Whole Genome Sequencing: Innovation Dream or Privacy Nightmare? Oxford, July 2014
- **CITI Lab.** Whole Genome Sequencing: Innovation Dream or Privacy Nightmare? Lyon, France, May 2014
- **Banbury Center.** Invited Panelist at the "Protecting Genomic Data Privacy while Accelerating Scientific Progress" meeting, Cold Spring Harbor Laboratory. Long Island, NY, December 2013
- **2nd Translational Medicine Meeting Keynote Speech.** Biomedical Neuroscience Institute, Faculty of Medicine, University of Chile, Santiago, Chile, November 2013

- **Dagstuhl Seminar: Genomic Privacy.** Invited Speaker and Panelist. Dagstuhl, Germany, October 2013
- **Purdue University.** Whole Genome Sequencing: Innovation Dream or Privacy Nightmare? March 2013
- **EPFL.** Efficient and Secure Testing on Fully Sequenced Human Genomes, Lausanne, December 2012
- **University of Salerno.** Sharing Sensitive Information with Privacy: Theory, Practice, and Applications, Salerno, Italy, December 2012
- **Northeastern University.** Colloquium Talk, Sharing Sensitive Information with Privacy: From Theory to Practice (And Applications). Boston, November 2012
- **Dagstuhl Seminar: Privacy-Oriented Cryptography.** Invited Speaker and Panelist. Dagstuhl, Germany, September 2012
- **ECRYPT Provable Privacy Workshop.** Efficient and Secure Testing of Fully Sequenced Human Genomes, Vigo, Spain, July 2012
- **Berkeley Center for Law & Technology's Conference on Web Privacy.** Invited Panelist, May 2012
- **UC Berkeley.** Hummingbird: #Privacy at the Time of @Twitter, March 2012
- **University of Aarhus.** Sharing Sensitive Information with Privacy, Aarhus, Denmark, June 2011
- **Microsoft Research Redmond.** Sharing Sensitive Information with Privacy, Redmond, UK, March 2011
- **Singapore Management University.** Sharing Sensitive Information with Privacy. Singapore, December 2010
- **UCLA.** Linear-Complexity Private Set Intersection Protocols Secure in Malicious Model. November 2010
- **Nokia Research Center.** Sharing Sensitive Information with Privacy. Palo Alto, CA, November 2010
- **INRIA Rhone Alpes.** Reclaiming Privacy for Smartphone Applications. Grenoble, France, October 2010
- **ETH.** Sharing Sensitive Information with Privacy. Zurich, Switzerland, September 2010
- **EPFL.** Protecting Privacy in Wireless Sensor Networks. Lausanne, October 2010, December 2009
- **KU Leuven.** Privacy-preserving Policy-based Information Transfer. Leuven, Belgium, October 2009

## Mentoring

- **PhD Committees:** Sharad Kumar (University of Cambridge, 2016), Iacovos Kirlappos (UCL, 2016), Iraklis Leontiadis (EU-RECOM, 2015), Filipe Beato (KU Leuven, 2015), Lukasz Olejnik (INRIA, 2015), Gines Dolera Tormo (University of Murcia, 2014), Abdelberi Chaabane (INRIA, 2014), Miguel Malheiros (UCL, 2013)
- **Mentoring at UCL:** Apostolos Pyrgelis, Luca Melis, Lucky Onwuzurike, Alexandros Mittos (PhD Advisor); Lukasz Olejnik (Post-doc Advisor); Andrea Cerulli, Jeremiah Onaolapo, Raphael Toledo, Jonathan Spring, Andreas Gutmann (Second Supervisor)
- **Mentoring at PARC:** Gregory Norcie (PhD internship, Summers 2012 and 2013), Igor Bilogrevic (PhD internship, Summer 2013), Abdelberi Chaabane (PhD internship, Summer 2012), Joan Melia-Segui (Visiting Researcher, Summer 2012)

## Teaching

- **Teaching at UCL:** Introduction to Cryptography (Fall 2014, Fall 2015, Fall 2016), Computer Security II (Winter 2014, Winter 2015, Winter 2016, Winter 2017), Computer Security I (several guest lectures, Fall 2013); Director of UCL's MSc in Information Security
- **Teaching Assistant:** Network Security (UC Irvine, 2011), Crypto Protocols (University of Salerno, Italy, 2006)
- **Coordinator:** Academic Centre of Excellence in Cyber Security Research (ACE-CSR) Distinguished Seminars Series (UCL, 2014–2015), PARC Privacy Lunch (2012–2013), PARC Security Reading Group (2011–2012)