

# Prof. Emiliano De Cristofaro

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[CV Last Updated: July 28, 2025]

## Research Interests

- Security and Privacy Enhancing Technologies
- Trustworthy Machine Learning
- Internet Measurement, CyberSafety, Online Harms

## Education

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

## Employment

- **July 2023–ongoing: University of California, Riverside (UCR)**
  - Full Professor (Step IV)
  - *Funding*: Cisco Research Gift, Privacy-Friendly Collaborative Threat Mitigation (PI, \$50,000), ARL (co-I, TBA)
- **October 2013 – June 2023: University College London (UCL)**
  - (Full) Professor of Security and Privacy Enhancing Technologies (since October 2019)
  - Reader/Associate Professor (October 2017 – September 2019)
  - Senior Lecturer (October 2013 – September 2017)

### Roles:

- Head of UCL's Information Security Research Group (September 2018–August 2022)
- Director of the Academic Center of Excellence in Cyber Security Research (January 2019–June 2023)
- Technology Advisor to Information Commissioner's Office (May 2019–May 2022)
- Faculty Fellow and Leader of the Privacy in Machine Learning Interest Group at the Alan Turing Institute, UK's National Institute for Data Science and Artificial Intelligence (October 2018–September 2021)
- Director of the MSc in Information Security (2015–2018)

### Grants and Funding (PI/co-PI):

- Google, Privacy-Friendly Distributed Misbehavior Detection, (PI, total funding \$70,000)
- Alan Turing Institute & Accenture, A Framework for Quantifying the Privacy/Utility Trade-off in Generative Model based Synthetic Data (co-PI, total funding £150,000)
- UKRI National Research Centre on Privacy, Harm Reduction and Adversarial Influence Online, "REPHRAIN" (co-PI, leadership team, total funding £6,864,055, UCL funding: £799,682)
- EU H2020 MSCA-ITN, Privacy & Usability Innovative Training Network, "Privacy & Us" (PI, total funding €3,376,517, UCL funding: €546,575)
- EU H2020 MSCA-RISE, Enhancing Security and Privacy in the Social Web, "ENCASE" (PI, total funding: €2,160,000, UCL funding: €310,500)
- Xerox University Affairs Committee Award and Research Councils UK IMPACT Award, "Secure Collaborative Analytics" (PI, total funding: £120,000)
- Microsoft Research & EPSRC Case Studentship, "Privacy in Distributed Learning" (PI, total funding £120,000)
- Amazon Research Awards, "Studying and Mitigating Inference Attacks on Collaborative Federated Learning" (PI, total funding, \$100,000)
- Alan Turing Institute & GCHQ, "Evaluating Privacy-Preserving Generative Models In The Wild" (PI, total funding £70,000)
- Google Faculty Research Award, "Enabling Progress in Genomic Research via Privacy-Preserving Data Sharing" (PI, \$70,000)
- Nokia Bell Labs Faculty Donation, "Privacy in Generative Models" (PI, total funding €40,000)
- Royal Society Netwon Fund Grant, "Usable Cryptographic Authentication" (co-PI, total funding: £30,000)

### Grants and Funding (co-I):

- EPSRC iSense Exploratory Grant, “A technical framework for enabling and supporting data donors for medical research” (co-I, £120,000)
- Alan Turing Institute & GCHQ, “Privacy And Trust In The Decentralised Web” (co-I, total funding £70,000)
- **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 genomics; 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-I on several NSF, DARPA, 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. Valtteri 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

- *IEEE S&P 2025, Distinguished Paper Award.* For the paper “The Inadequacy of Similarity-based Privacy Metrics: Privacy Attacks against “Truly Anonymous” Synthetic Datasets,” with Georgi Kanev, May 2025
- *ACM Distinguished Member (Class of 2025).* Recognized for “contributions to privacy-enhancing technologies and internet measurement.”
- *ACM WebSci 2023, Best Paper Award.* For the paper “Understanding the Use of e-Prints on Reddit and 4chan’s Politically Incorrect Board,” with Satrio Baskoro Yudhoatmojo and Jeremy Blackburn, April 2023
- *ACM CCS 2022, Honorable Mention.* For the paper “Why So Toxic? Measuring and Triggering Toxic Behavior in Open-Domain Chatbots,” with Wai Man Si, Jeremy Blackburn, Gianluca Stringhini, Savvas Zannettou, and Yang Zhang, November 2022
- *ACM CSCW 2021, Honorable Mention.* For the paper “Do Platform Migrations Compromise Content Moderation? Evidence from r/The\_Donald and r/Incels,” with Manoel Horta Ribeiro, Shagun Jhaver, Savvas Zannettou, Jeremy Blackburn, Gianluca Stringhini, and Robert West, October 2021
- *ACM CSCW 2021, Impact Recognition Award.* For the paper “I’m a Professor, which isn’t usually a dangerous job: Internet-Facilitated Harassment and its Impact on Researchers,” with Periwinkle Doerfler, Andrea Forte, Gianluca Stringhini, Jeremy Blackburn, and Damon McCoy, October 2021
- *ACM CyberSafety 2019, Best Paper Award.* For the paper “Disinformation Warfare: Understanding State-Sponsored Trolls on Twitter and Their Influence on the Web” with Savvas Zannettou, Tristan Caulfield, Michael Sirivianos, Gianluca Stringhini, and Jeremy Blackburn, May 2019
- *ACM IMC 2018, Distinguished Paper Award.* For the paper “On the Origins of Memes by Means of Fringe Web Communities,” with Savvas Zannettou, Tristan Caulfield, Jeremy Blackburn, Michael Sirivianos, Gianluca Stringhini, and Guillermo Suarez-Tangil, October 2018
- *NDSS 2018, Distinguished Paper Award.* For the paper “Knock Knock, Who’s There? Membership Inference on Aggregate Location Data,” with Apostolos Pyrgelis and Carmela Troncoso, February 2018
- *5th Data Protection by Design Award.* Award issued by the Catalan Data Protection authority and the Parliament of Catalonia, for work with Luca Melis and George Danezis, June 2017
- *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

## Top Publications

1. A. Galeazzi, P. Paudel, M. Conti, E. De Cristofaro, G. Stringhini  
*Revealing The Secret Power: How Algorithms Can Influence Content Visibility on Twitter/X*  
33rd Network and Distributed System Security Symposium (NDSS 2026)
2. G. Ganey, M.S.M.S., S. Mahiou, E. De Cristofaro  
*The Importance of Being Discrete: Measuring the Impact of Discretization in End-to-End Differentially Private Synthetic Data*  
32nd ACM Conference on Computer and Communications Security (ACM CCS 2025)
3. G. Ganey and E. De Cristofaro  
*The Inadequacy of Similarity-based Privacy Metrics: Privacy Attacks against “Truly Anonymous” Synthetic Datasets*  
46th IEEE Symposium on Security and Privacy (S&P 2025)  
**Distinguished Paper Award**
4. M.S.M.S. Annamalai, I. Bilogrevic, E. De Cristofaro  
*Beyond the Crawl: Unmasking Browser Fingerprinting in Real User Interactions*  
34th The Web Conference (WWW 2025)
5. M.S.M.S. Annamalai and E. De Cristofaro  
*Nearly Tight Black-Box Auditing of Differentially Private Machine Learning*  
Thirty-Eighth Annual Conference on Neural Information Processing Systems (NeurIPS 2024)
6. G. Ganey, K. Xu, E. De Cristofaro  
*Graphical vs. Deep Generative Models: Measuring the Impact of Differentially Private Mechanisms and Budgets on Utility*  
31st ACM Conference on Computer and Communications Security (CCS 2024)
7. M.S.M.S. Annamalai, G. Ganey, E. De Cristofaro  
*“What do you want from theory alone?” Experimenting with Tight Auditing of Differentially Private Synthetic Data Generation*  
33rd USENIX Security Symposium (USENIX Security 2024)
8. A. Efstratiou, M. Efstratiou, S. Yudhoatmojo, J. Blackburn, E. De Cristofaro  
*“Here’s Your Evidence”: False Consensus in Public Twitter Discussions of COVID-19 Science*  
27th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2024)
9. M.S.M.S. Annamalai, I. Bilogrevic, E. De Cristofaro  
*FP-Fed: Privacy-Preserving Federated Detection of Browser Fingerprinting*  
31st Network and Distributed System Security Symposium (NDSS 2024)
10. M. Naseri, Y. Han, E. De Cristofaro  
*BadVFL: Backdoor Attacks in Vertical Federated Learning*  
45th IEEE Symposium on Security and Privacy (S&P 2024)
11. M.H. Saeed, K. Papadamou, J. Blackburn, E. De Cristofaro, G. Stringhini  
*TUBERAIDER: Attributing Coordinated Hate Attacks on YouTube Videos to their Source Communities*  
18th International AAAI Conference on Web and Social Media (ICWSM 2024)
12. P. Paudel, J. Blackburn, E. De Cristofaro, S. Zannettou, G. Stringhini  
*LAMBRETTA: Learning to Rank for Twitter Soft Moderation*  
44th IEEE Symposium on Security & Privacy (S&P 2023)
13. A. Efstratiou, J. Blackburn, T. Caulfield, G. Stringhini, S. Zannettou, E. De Cristofaro  
*Non-Polar Opposites: Analyzing the Relationship Between Echo Chambers and Hostile Intergroup Interactions on Reddit*  
17th International AAAI Conference on Web and Social Media (ICWSM 2023)
14. M. Naseri, Yufei Han, E. Mariconti, Y. Shen, G. Stringhini, E. De Cristofaro  
*CERBERUS: Exploring Federated Prediction of Security Events*  
29th ACM Conference on Computer and Communications Security (CCS 2022)
15. W.M. Si, J. Blackburn, E. De Cristofaro, G. Stringhini, S. Zannettou, Yang Zhang  
*Why So Toxic? Measuring and Triggering Toxic Behavior in Open-Domain Chatbots*  
29th ACM Conference on Computer and Communications Security (CCS 2022)
16. A. Efstratiou and E. De Cristofaro  
*Adherence to Misinformation on Social Media Through Socio-Cognitive and Group-Based Processes*  
25th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2022)
17. G. Ganey, B. Oprisanu, E. De Cristofaro  
*Robin Hood and Matthew Effects – Differential Privacy Has Disparate Impact on Synthetic Data*  
39th International Conference on Machine Learning (ICML 2022)
18. Y. Liu, R. Wen, X. He, A. Salem, Z. Zhang, M. Backes, E. De Cristofaro, M. Fritz, Y. Zhang  
*ML-Doctor: Holistic Risk Assessment of Inference Attacks Against Machine Learning Models*  
31st USENIX Security Symposium (USENIX Security 2022)

19. H.B. Zia, A. Raman, I. Castro, I. Anaobi, E. De Cristofaro, N. Sastry, G. Tyson  
*Toxicity in the Decentralized Web and the Potential for Model Sharing*  
ACM International Conference on Measurement and Modeling of Computer Systems (SIGMETRICS 2022)
20. M.H. Saeed, S. Ali, J. Blackburn, E. De Cristofaro, S. Zannettou, G. Stringhini  
*TROLLMAGNIFIER: Detecting State-Sponsored Troll Accounts on Reddit*  
43th IEEE Symposium on Security & Privacy (S&P 2022)
21. M. Naseri, J. Hayes, E. De Cristofaro  
*Local and Central Differential Privacy for Robustness and Privacy in Federated Learning*  
29th Network and Distributed System Security Symposium (NDSS 2022)
22. B. Oprisanu, G. Ganev, E. De Cristofaro  
*On Utility and Privacy in Synthetic Genomic Data*  
29th Network and Distributed System Security Symposium (NDSS 2022)
23. M. Aliapoulos, A. Papasavva, C. Ballard, E. De Stringhini, S. Zannettou, J. Blackburn  
*The Gospel According to Q: Understanding the QAnon Conspiracy from the Perspective of Canonical Information*  
16th International AAAI Conference on Web and Social Media (ICWSM 2022)
24. K. Papadamou, S. Zannettou, J. Blackburn, E. De Cristofaro, G. Stringhini, M. Sirivianos  
*"It is just a flu": Assessing the Effect of Watch History on YouTube's Pseudoscientific Video Recommendations*  
16th International AAAI Conference on Web and Social Media (ICWSM 2022)
25. P. Doerfler, A. Forte, E. De Cristofaro, G. Stringhini, J. Blackburn, D. McCoy  
*"I'm a Professor, which isn't usually a dangerous job": Internet-Facilitated Harassment and its Impact on Researchers*  
24th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2021)  
**Impact Recognition Award**
26. M.H. Ribeiro, S. Jhaver, S. Zannettou, J. Blackburn, E. De Cristofaro, G. Stringhini, R. West  
*Do Platform Migrations Compromise Content Moderation? Evidence from r/The\_Donald and r/Incel*  
24th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2021)  
**Honorable Mention**  
Media Coverage: WaPo, El País, The Brink, Wired
27. K. Papadamou, S. Zannettou, J. Blackburn, E. De Cristofaro, G. Stringhini, M. Sirivianos  
*"How over is it?" Understanding the Incel Community on YouTube*  
24th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2021)
28. C. Ling, I. AbuHilal, J. Blackburn, E. De Cristofaro, S. Zannettou, G. Stringhini  
*Dissecting the Meme Magic: Understanding Indicators of Virality in Image Memes*  
24th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2021)  
Media Coverage: Input Mag
29. A. Ishaku, I. Castro, A. Raman, H.B. Zia, E. De Cristofaro, N. Sastry, G. Tyson  
*Throwing the Baby out with the Bathwater: Exploring Moderation in the Decentralised Web*  
17th International Conference on emerging Networking EXperiments and Technologies (CoNext 2021)
30. A. Papasavva, J. Blackburn, G. Stringhini, S. Zannettou, E. De Cristofaro  
*"Is it a Qoincidence?": An Exploratory Study of QAnon on Voat*  
30th The Web Conference (WWW 2021)  
Media Coverage: WaPo, El País, The Brink, Wired
31. Max Aliapoulos, Emmi Bevensee, J. Blackburn, E. De Cristofaro, G. Stringhini, S. Zannettou  
*A Large Open Dataset from the Parler Social Network*  
15th International AAAI Conference on Web and Social Media (ICWSM 2021)  
Media Coverage: USA Today, The Conversation, Business Insider-1, Business Insider-2
32. Y. Wang, F. Tahmasbi, J. Blackburn, B. Bradlyn, E. De Cristofaro, D. Magerman, S. Zannettou, G. Stringhini  
*Understanding the Use of Fauxtopography on Social Media*  
15th International AAAI Conference on Web and Social Media (ICWSM 2021)
33. M.H. Ribeiro, J. Blackburn, B. Bradlyn, E. De Cristofaro, G. Stringhini, S. Long, S. Greenberg, S. Zannettou  
*The Evolution of the Manosphere Across the Web*  
15th International AAAI Conference on Web and Social Media (ICWSM 2021)  
Media Coverage: Newsweek, MIT Tech, Daily Mail
34. A. Pyrgelis, C. Troncoso, E. De Cristofaro  
*Measuring Membership Privacy on Aggregate Location Time-Series*  
ACM International Conference on Measurement and Modeling of Computer Systems (SIGMETRICS 2020)
35. A. Papasavva, S. Zannettou, E. De Cristofaro, G. Stringhini, J. Blackburn  
*Raiders of the Lost Kek: 3.5 Years of Augmented 4chan Posts from the Politically Incorrect Board*  
14th International AAAI Conference on Web and Social Media (ICWSM 2020)

36. S. Zannettou, B. Bradlyn, T. Caulfield, E. De Cristofaro, G. Stringhini, J. Blackburn  
*Characterizing the Use of Images in State-Sponsored Information Warfare Operations by Russian Trolls on Twitter*  
14th International AAAI Conference on Web and Social Media (ICWSM 2020)
37. A. Mittos, S. Zannettou, J. Blackburn, E. De Cristofaro  
*"And We Will Fight For Our Race!" A Measurement Study of Genetic Testing Conversations on Reddit and 4chan*  
14th International AAAI Conference on Web and Social Media (ICWSM 2020)
38. A. Raman, S. Joglekar, E. De Cristofaro, N. Sastry, G. Tyson  
*Challenges in the Decentralized Web: The Mastodon Case*  
19th ACM Internet Measurement Conference (IMC 2019)
39. E. Mariconti, G. Suarez-Tangil, J. Blackburn, E. De Cristofaro, N. Kourtellis, I. Leontiadis, J. Luque Serrano, G. Stringhini  
*"You Know What to Do": Proactive Detection of YouTube Videos Targeted by Coordinated Hate Attacks*  
22nd ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2019)
40. L. Melis, C. Song, E. De Cristofaro, V. Shmatikov  
*Exploiting Unintended Feature Leakage in Collaborative Learning*  
40th IEEE Symposium on Security & Privacy (S&P 2019)
41. V. Primault, V. Lampos, I. Cox, E. De Cristofaro  
*Privacy-Preserving Crowd-Sourcing of Web Searches with Private Data Donor*  
28th The World Wide Web Conference (WWW 2019)
42. S. Zannettou, T. Caulfield, J. Blackburn, E. De Cristofaro, M. Sirivianos, G. Stringhini, G. Suarez-Tangil  
*On the Origins of Memes by Means of Fringe Web Communities*  
18th ACM Internet Measurement Conference (IMC 2018)  
**Distinguished Paper Award**
43. A. Pyrgelis, C. Troncoso, E. De Cristofaro  
*Knock Knock, Who's There? Membership Inference on Aggregate Location Data*  
25th Network and Distributed System Security Symposium (NDSS 2018)  
**Distinguished Paper award**
44. S. Zannettou, J. Blackburn, E. De Cristofaro, M. Sirivianos, G. Stringhini  
*Understanding Web Archiving Services and Their (Mis)Use on Social Media*  
12th International AAAI Conference on Web and Social Media (ICWSM 2018)
45. B. Oprisanu and E. De Cristofaro  
*AnoniMME: Bringing Anonymity to the Matchmaker Exchange Platform for Rare Disease Gene Discovery*  
26th ISCB Conference on Intelligent Systems for Molecular Biology (ISMB 2018)
46. S. Zannettou, T. Caulfield, E. De Cristofaro, N. Kourtellis, I. Leontiadis, M. Sirivianos, G. Stringhini, J. Blackburn  
*The Web Centipede: Understanding How Web Communities Influence Each Other Through the Lens of Mainstream and Alternative News Sources*  
17th ACM Internet Measurement Conference (IMC 2017)
47. G. Hine, J. Onaolapo, E. De Cristofaro, N. Kourtellis, I. Leontiadis, R. Samaras, G. Stringhini, J. Blackburn  
*Kek, Cucks, 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)  
**Best Paper Runner-Up**
48. 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)
49. L. Melis, G. Danezis, E. De Cristofaro  
*Efficient Private Statistics with Succinct Sketches*  
23rd Network and Distributed System Security Symposium (NDSS 2016)
50. 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**
51. E. De Cristofaro, A. Friedman, G. Jourjon, M.A. Kaafar, M.Z. Shafiq  
*Paying for Likes? Understanding Facebook Like Fraud Using Honey Pots*  
14th ACM Internet Measurement Conference (IMC 2014)
52. 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)

53. 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)
54. E. De Cristofaro, J. Kim, 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)

## Other Publications

1. S. Chennoufi, Y. Han, G. Blanc, E. De Cristofaro, C. Kiennert  
*PROTEAN: Federated Intrusion Detection in Non-IID Environments through Prototype-Based Knowledge Sharing*  
30th European Symposium on Research in Computer Security (ESORICS 2025)
2. B. Treves, E. De Cristofaro, M. Faloutsos, Y. Dong  
*VIKI: Systematic Cross-Platform Profile Inference of Tech Users*  
17th ACM Web Science Conference (WebSci 2025)
3. G. Ganey, M.S.M.S. Annamalai, S. Mahiou, E. De Cristofaro  
*Understanding the Impact of Data Domain Extraction on Synthetic Data Privacy*  
Will Synthetic Data Finally Solve the Data Access Problem? (ICLR 2025 Workshop)
4. G. Ganey, M.S.M.S. Annamalai, E. De Cristofaro  
*The Elusive Pursuit of Reproducing PATE-GAN: Benchmarking, Auditing, Debugging*  
Transactions on Machine Learning Research (TMLR), Feb 2025
5. E. De Cristofaro  
*Synthetic Data: Methods, Use Cases, and Risks*  
IEEE Security and Privacy Magazine – Special Issue on Synthetic Realities, 2024
6. S.B. Yudhoatmojo, E. De Cristofaro, J. Blackburn  
*Understanding the Use of e-Prints on Reddit and 4chan's Politically Incorrect Board*  
15th ACM Web Science Conference 2023 (WebSci 2023)  
**Best Paper Award**
7. U. Balci, C. Ling, E. De Cristofaro, M. Squire, G. Stringhini, J. Blackburn  
*Beyond Fish and Bicycles: Exploring the Varieties of Online Women's Ideological Spaces*  
15th ACM Web Science Conference 2023 (WebSci 2023)
8. Y. Wang, S. Zannettou, J. Blackburn, B. Bradlyn, E. De Cristofaro, G. Stringhini  
*A Multi-Platform Analysis of Political News Discussion and Sharing on Web Communities*  
2021 IEEE International Conference on Big Data (IEEE BigData 2021)
9. E. De Cristofaro  
*A Critical Overview of Privacy in Machine Learning*  
IEEE Security & Privacy Magazine, Volume 19, Issue 4, July-August 2021
10. S. Ali, M.H. Saeed, E. Aldreabi, J. Blackburn, E. De Cristofaro, S. Zannettou, G. Stringhini  
*Understanding the Effect of Deplatforming on Social Networks*  
13th ACM Web Science Conference (ACM WebSci 2021)
11. A. Mittos, S. Zannettou, J. Blackburn, E. De Cristofaro  
*Analyzing Genetic Testing Discourse on the Web Through the Lens of Twitter, Reddit, and 4chan*  
ACM Transactions on the Web (TWEB), Volume 13, Issue 4, August 2020
12. M. Wixey, S. Johnson, E. De Cristofaro  
*On the Feasibility of Acoustic Attacks Using Commodity Smart Devices*  
IEEE Workshop on the Internet of Safe Things (co-located with IEEE S&P 2020)
13. B. Oprisanu, C. Dessimoz, E. De Cristofaro  
*How Much Does GenoGuard Really Guard? An Empirical Analysis of Long-Term Security for Genomic Data*  
18th ACM CCS Workshop on Privacy in the Electronic Society (WPES 2019)
14. H.J. Asghar, E. De Cristofaro, G. Jourjon, D. Kaafar, L. Mathy, L. Melis, C. Russell, M. Yu  
*Fast Privacy-Preserving Network Function Outsourcing*  
Computer Networks, Vol. 163, 2019
15. D. Chatzakou, I. Leontiadis, J. Blackburn, E. De Cristofaro, G. Stringhini, A. Vakali, N. Kourtellis  
*Detecting Cyberbullying and Cyberaggression in Social Media*  
ACM Transactions on the Web (TWEB), Vol. 13, No. 3, 2019
16. S. Zannettou, T. Caulfield, E. De Cristofaro, M. Sirivianos, G. Stringhini, J. Blackburn  
*Disinformation Warfare: Understanding State-Sponsored Trolls on Twitter and Their Influence on the Web*  
4th Workshop on Computational Methods in CyberSafety, Online Harassment and Misinformation (ACM CyberSafety 2019)

**Best Paper Award**

17. L. Onwuzurike, E. Mariconti, P. Andriotis, E. De Cristofaro, G. Ross, G. Stringhini  
*MaMaDroid: Detecting Android Malware by Building Markov Chains of Behavioral Models (Extended Version)*  
ACM Transactions on Privacy and Security (ACM TOPS), Volume 22, Issue 2, April 2019
18. Jamie Hayes, L. Melis, G. Danezis, E. De Cristofaro  
*LOGAN: Membership Inference Attacks Against Generative Models*  
Proceedings on Privacy Enhancing Technologies, Vol. 2019, Issue 1 (PoPETS 2019)
19. A. Mittos, Bradley Malin, E. De Cristofaro  
*Systematizing Genome Privacy Research: A Privacy-Enhancing Technologies Perspective*  
Proceedings on Privacy Enhancing Technologies, Vol. 2019, Issue 1 (PoPETS 2019)
20. L. Melis, Apostolos Pyrgelis, E. De Cristofaro  
*On Collaborative Predictive Blacklisting*  
ACM SIGCOMM's Computer Communication Review (CCR), Vol. 48, No. 5, Oct. 2018
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22. G. Acs, L. Melis, C. Castelluccia, E. De Cristofaro (Extended Version)  
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25. A. Cerulli, E. De Cristofaro, C. Soriente  
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17th IEEE International Conference on Data Mining series (ICDM 2017)
27. Apostolos Pyrgelis, Carmela Troncoso, E. De Cristofaro  
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28. M. Ikram, L. Onwuzurike, S. Farooqi, E. De Cristofaro, A. Friedman, G. Jourjon, D. Kaafar, M.Z. Shafiq  
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29. D. Chatzakou, N. Kourtellis, J. Blackburn, E. De Cristofaro, G. Stringhini, A. Vakali  
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35. Apostolos Pyrgelis, E. De Cristofaro, G. Ross  
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36. E. De Cristofaro, K. Liang, Y. Zhang  
*Privacy-Preserving Genetic Relatedness Test*  
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37. R. Nithyanand, S. Khattak, M. Javed, N. Vallina-Rodriguez, M. Falahrastegar, J. E. Powles, E. De Cristofaro, H. Haddadi, S.J. Murdoch  
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6th USENIX Workshop on Free and Open Communications on the Internet (FOCI 2016)
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3rd ACM SIGCOMM Workshop on Hot Topics in Middleboxes and Network Function Virtualization (HotMiddleBox 2016)
39. L. Melis, H. Asghar, E. De Cristofaro, D. Kaafar  
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1st ACM Workshop on Security in Software Defined Networks & Network Function Virtualization (SDNNFVSEC 2016)
40. 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)
41. K. Krol, M.S. Rahman, S. Parkin, E. De Cristofaro, E. Vasserman  
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10th NDSS Workshop on Usable Security (USEC 2016)
42. J. Freudiger, E. De Cristofaro, A. Brito  
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12th Conference on Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA 2015)
43. M. Nagy, T. Bui, E. De Cristofaro, N. Asokan, J. Ott, A.R. Sadeghi  
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44. L. Onwuzurike and E. De Cristofaro  
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45. E. Ayday, E. De Cristofaro, J.P. Hubaux, G. Tsudik  
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47. G. Danezis and E. De Cristofaro  
*Fast and Private Genomic Testing for Disease Susceptibility*  
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49. 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)
50. C. Blundo, E. De Cristofaro, P. Gasti  
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54. M. Nagy, E. De Cristofaro, A. Dmitrienko, N. Asokan, A.R. Sadeghi  
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55. E. De Cristofaro, C. Soriente  
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56. E. De Cristofaro, S. Faber, G. Tsudik  
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57. A. Chaabane, E. De Cristofaro, M.A. Kaafar, E. Uzun  
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59. A. Cardenas, R. Chow, E. De Cristofaro  
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60. E. De Cristofaro, C. Soriente  
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11th International Conference on Cryptology and Network Security (CANS 2012)
64. E. De Cristofaro, S. Faber, P. Gasti, Gene Tsudik  
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International Workshop on Privacy in Electronic Society (WPES 2012)
65. C. Blundo, E. De Cristofaro, P. Gasti  
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66. 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
67. E. De Cristofaro and G. Tsudik  
*Experimenting with Fast Private Set Intersection*  
International Conference on Trust and Trustworthy Computing (TRUST 2012)
68. E. De Cristofaro, R. Di Pietro  
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69. M. Almishari, E. De Cristofaro, K. El Defrawy, G. Tsudik  
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71. C. Castelluccia, E. De Cristofaro, A. Francillon, M.A. Kaafar  
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72. E. De Cristofaro, Y. Lu, G. Tsudik  
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International Conference on Trust and Trustworthy Computing (TRUST 2011)
73. E. De Cristofaro, C. Soriente  
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ACM Conference on Wireless Security (WiSec 2011)
74. E. De Cristofaro, A. Durussel, I. Aad  
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75. G. Ateniese, E. De Cristofaro, G. Tsudik  
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76. C. Castelluccia, E. De Cristofaro, D. Perito  
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77. E. De Cristofaro and J. Kim  
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Workshop on Lightweight Cryptography for Resource-Constrained Devices (WLC 2010)
80. E. De Cristofaro, S.Jarecki, J.Kim, G. Tsudik  
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Privacy Enhancing Technologies Symposium (PETS 2009)
81. E. De Cristofaro, X.Ding, G. Tsudik  
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IEEE International Conference on Computer Communications and Networks (ICCCN 2009)
82. E. De Cristofaro, J.M. Bohli, D.Westhoff  
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83. C. Blundo, E. De Cristofaro, A. Del Sorbo, C. Galdi, G. Persiano  
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*Validating Orchestration of Web Services with BPEL and Aggregate Signatures*  
IEEE European Conference on Web Services (ECOWS 2008)
85. 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)
86. V. Auletta, C. Blundo, E. De Cristofaro, S. Cimato, G. Raimato  
*Authenticated Web Services: A WS-Security Based Implementation*  
IFIP International Conference on New Technologies, Mobility, and Security (NTMS 2007)
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88. V. Auletta, C. Blundo, E. De Cristofaro  
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International Conference on Systems and Network Communications (ICSNC 2007)
89. V. Auletta, C. Blundo, E. De Cristofaro, G. Raimato  
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IEEE International Conference on Web Services (ICWS 2006)

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*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 US8667062. Co-inventors: Imad Aad, Valtteri Niemi, Anthony Durussel, Igor Bilogrevic, Jean-Pierre Hubaux
- Method and apparatus for performing distributed privacy-preserving computations on user locations.  
 US Patent US8954737B2. Co-inventors: Joan Melia Segui, Rui Zhang, Oliver Brdiczka, Ersin Uzun
- Methods for Selection of Collaborators for Online Threat Mitigation.  
 US Patent US9817977. Co-inventors: Julien Freudiger, Ersin Uzun, Alejandro Brito, Marshall Bern
- Method and Apparatus for Privacy and Trust Enhancing Sharing of Data for Collaborative Analytics.  
 US Patent US9275237. Co-inventors: Julien Freudiger, Ersin Uzun, Alejandro Brito, Marshall Bern
- Portable Proxy For Security Management And Privacy Protection And Method Of Use.  
 US Patent US9578062B2. Co-inventors: Julien Freudiger, Ersin Uzun, Golam Sarwar
- Methods for Centralized Privacy-Preserving Collaborative Threat Mitigation.  
 US Patent US9477839B2. Co-inventors: Julien Freudiger, Ersin Uzun, Alejandro Brito, Marshall Bern
- Computer-Implemented System And Method For Verifying Online Dating Profiles.  
 US Patent Application 20140156750. Co-inventors: Victoria Bellotti and Gregory Norcie
- Privacy-Sensitive Ranking of User Data.  
 US Patent Application 20150371059. Co-inventors: Igor Bilogrevic, Julien Freudiger, Ersin Uzun
- Private and Distributed Computation of Probability Density Functions.  
 US Patent Application 20150372808. Co-inventors: Igor Bilogrevic, Julien Freudiger, and Ersin Uzun

## Service

- **PC/Track Co-Chair:** ACM AsiaCCS 2026 (Privacy), ACM CCS 2025 (Usability & Measurement), TTO 2020, ACM CCS 2018 (Privacy), WWW 2018 (Security & Privacy), GenoPri 2018, GenoPri 2015, PETS 2014, PETS 2013, HotPETS 2012
- **PC Member (Top-Tier):** IEEE S&P 2026, IEEE S&P 2025, Usenix Security 2025, ACM CCS 2024, IEEE S&P 2023, NDSS 2023, WWW 2023, SIGMETRICS 2023, SIGMETRICS 2022, NDSS 2022, WWW 2022, IEEE S&P 2022, IEEE S&P 2021, SIGMETRICS 2021, SIGMETRICS 2020, IEEE S&P 2020, WWW 2020, Usenix Security 2020, ACM CCS 2019, NDSS 2020, NDSS 2019, ACM CCS 2018, ACM CCS 2017, WWW 2017, NDSS 2017, IEEE S&P 2016, NDSS 2016, IEEE S&P 2015, WWW 2014
- **PC Member (Others):** PETS 2022 (Senior), PETS 2018, ACM HyperText 2018, ICWSM 2018, ICDCS 2018, IEEE EuroSP 2018, PETS 2017, AsiaCCS 2017, WiSec 2016, PKC 2016, PETS 2016, EuroUSEC 2016, GenoPri 2016, PPML 2016, USEC 2015, WPES 2015, Financial Crypto 2015, WiSec 2014, ICCCN 2014, GenoPri 2014, SESOC 2014, WPES 2014, SESOC 2013, CANS 2013, WISEC 2013, Financial Crypto 2013, CANS 2012, PETS 2012, WISEC 2012, DPM 2012, ICCCN 2012, WPES 2012, CCSW 2012, CANS 2011, ISC 2010
- **Journals:** Associated Editor for the Journal of Cybersecurity (Cryptography and Associated Topics, 2015–2018) and ACM Transactions of Privacy and Security (ACM TOPS, 2021–).
- **Funding:** NSERC (Canada), NSF SaTC (USA), PRIN (Italy), FWO (Belgium), EPSRC (UK), FWF (Austria)
- **Organization:** Dagstuhl Seminar on “PETs and AI: Privacy Washing and the Need for a PETs Evaluation Framework” (March 9–14, 2025); IEEE EuroSP 2018, General Co-Chair (April 24–26, 2018), Dagstuhl Seminar on “Cybersafety in Modern Online Social Networks” (September 10–13, 2017)

## Teaching

- **Teaching at UCR:** CS 163 Privacy (Spring 2025), CS 179F Project in Computer Science–Operating Systems (Winter 2025), CS 260 Privacy Seminar (Spring 2024), CS 254 Network Security (Winter 2024), CS 179F Project in Computer Science–Operating Systems (Fall 2023)
- **Teaching at UCL:** Security (BSc/MEng Computer Science, Winter 2023, Winter 2022), Introduction to Cryptography (MSc InfoSec, Fall 2014, Fall 2015, Fall 2016, Fall 2017), Computer Security II (MSc InfoSec, Winter 2014, Winter 2015, Winter 2016, Winter 2017, Winter 2018, Winter 2019, Winter 2020), Privacy Enhancing Technologies (MSc InfoSec, Winter 2019, Winter 2020)
- **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, 2014–2020), PARC Privacy Lunch (2012–2013), PARC Security Reading Group (2011–2012)

## Mentoring

- **Current Supervision at UCR:** Md. Olid Hasan Bhuiyan, Rohith Krishna Papani (PhD Advisor); Alexander Hickerson (PhD Co-Advisor, with Michalis Faloutsos);
- **Current Supervision at UCL:** Georgi Ganey, Meenatchi Sundaram Muthu Selva Annamalai (PhD Advisor);
- **Graduated PhD Students** (Main PhD Advisor): Luca Melis (2014–2018, now Research Scientist at Meta), Lucky Onwuzurike (2014–2018, now Senior Security Consultant at E&Y), Apostolos Pyrgelis (2015–2018, now Senior Researcher at RISE Research Institutes of Sweden), Alexandros Mittos (2015–2020, now Data Scientist at PS AI Labs), Bristena Oprisanu (2017–2021, now Research Scientist at Bitfount), Antonis Papasavva (2019–2024, now Post-Doctoral Researcher at UCL), Mohammad Naseri (2019–2024, now Research Scientist at Flower Labs), Alexandros Efstratiou (2020–2024, now Postdoctoral Researcher at University of Washington)
- **Post-doc Alumni:** Vincent Primault (2017–2018), Lukasz Olejnik (2016–2017), Konstantinos Papadamou (2021-2023);
- **PhD Committee:** Hélène Orsini (INRIA Rennes, 2025), Joonas Jälkö (Aalto University, 2023), Sina Sajadmanesh (EPFL, 2023), Federica Granese (Institut Polytechnique de Paris, 2023), César Sabater (INRIA, 2022), Nikolaos Lykousas (University of Pireaus, 2022), Raouf Kerkouche (INRIA, 2021), Ania Piotrowska (UCL, 2020), Tejas Kulkarni (Warwick University, 2019), Jaroslav Sedenka (Masaryk University, 2019), Marc Roeschlin (Oxford University, 2018), Ingolf Becker (UCL, 2018), Marc Roeschlin (Oxford University, 2018), Manu Drijvers (IBM/ETH, 2018), Jean-Louis Raisaro (EPFL, 2018), Saman Feghhi (Trinity College Dublin, 2017), Sharad Kumar (University of Cambridge, 2016), Iacovos Kirlappos (UCL, 2016), Iraklis Leontidas (EURECOM, 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)