Prof. Emiliano De Cristofaro

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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: Professor at University of California, Riverside (UCR)**

  Grants and Funding:

  ○ Google Academic Research Award, On-Device Detection of Sophisticated Scams (Co-PI, $50,000)
  ○ Cisco Research Gift, Privacy-Friendly Collaborative Threat Mitigation (PI, $50,000)
  ○ DoD, AASHI: Adaptive, Autonomous and Secure Heterogeneous Integrated System of Systems (co-I, total funding $8,000,000)
  ○ UCR Committee on Research, LOGOS – A Multidisciplinary UCR initiative for modeling and improving online dialogue (PI, $3,050)

- **October 2013 – June 2023: University College London (UCL)**

  ○ (Full) Professor of Security and Privacy Enhancing Technologies, October 2019 – June 2023
  ○ Technology Advisor to the Information Commissioner's Office, May 2019 – May 2022
  ○ Reader (~Associate Professor++), October 2017 – September 2019
  ○ Senior Lecturer (~Associate Professor), 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
  ○ Faculty Fellow and Leader of the Privacy in Machine Learning Interest Group at the Alan Turing Institute, the UK's National Institute for Data Science and Artificial Intelligence, October 2018 – September 2021
  ○ Director of the MSc in Information Security, September 2015 – September 2018

  Grants and Funding:

  ○ 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)
- 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

- **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 Ganev, 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

Selected Publications[1]

1. G. Ganev, M.R. Nazari, R. Davison, A.F. Dizche, X. Wu, R. Abbey, J.G. Silva, E. De Cristofaro
   SMOTE and Mirrors: Exposing Privacy Leakage from Synthetic Minority Oversampling
   14th International Conference on Learning Representations (ICLR 2026)

2. M.S.M.S. Annamalai, B. Balle, J. Hayes, E. De Cristofaro
   To Shuffle or not to Shuffle: Auditing DP-SGD with Shuffling
   33rd Network and Distributed System Security Symposium (NDSS 2026)

3. 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)

4. G. Ganev, M.S.M.S. Annamalai, 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)

5. G. Ganev 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

6. 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)

7. 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)

8. G. Ganev, 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)

9. M.S.M.S. Annamalai, G. Ganev, 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)

10. 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)

11. 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)

12. M. Naseri, Y. Han, E. De Cristofaro
    BadVFL: Backdoor Attacks in Vertical Federated Learning
    45th IEEE Symposium on Security and Privacy (S&P 2024)

13. 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)

14. 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)

15. 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)

16. 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)

17. 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)

18. 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)

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[1] Listing: 1) conferences listed as the "most selective" in Computer Science according to csrankings.org (37), 2) top specialized venues pn computational social science, i.e., ICWSM and CSCW (19), and 3) the top specialized venue on privacy technologies, i.e., PETS (5).

19. G. Ganev, 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)

20. 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)

21. 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)

22. 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)

23. 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)

24. B. Oprisanu, G. Ganev, E. De Cristofaro
On Utility and Privacy in Synthetic Genomic Data
29th Network and Distributed System Security Symposium (NDSS 2022)

25. M. Aliapoulios, 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)

26. 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)

27. 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

28. 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/Incels
24th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2021)
Honorable Mention
Media Coverage: WaPo, El País, The Brink, Wired

29. 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)

30. 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

31. 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)

32. 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

33. Max Aliapoulios, 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

34. Y. Wang, F. Tahmasbi, J. Blackburn, B. Bradlyn, E. De Cristofaro, D. Magerman, S. Zannettou, G. Stringhini
Understanding the Use of Fauxtography on Social Media
15th International AAAI Conference on Web and Social Media (ICWSM 2021)

35. 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

36. 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)

37. 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)

38. 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)

39. 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)

40. 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)

41. 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)

42. 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)

43. 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)

44. 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)

45. 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)

46. 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

47. 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

48. 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)

49. 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)

50. 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)

51. Apostolos Pyrgelis, Carmela Troncoso, E. De Cristofaro
   What Does The Crowd Say About You? Evaluating Aggregation-based Location Privacy
   17th Privacy Enhancing Technologies Symposium (PETS 2017)

52. 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

53. 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)

54. L. Melis, G. Danezis, E. De Cristofaro
Efficient Private Statistics with Succinct Sketches
23rd Network and Distributed System Security Symposium (NDSS 2016)

55. 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

56. 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)

57. 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)

58. 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)

59. 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)

60. C. Castelluccia, E. De Cristofaro, 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)

61. E. De Cristofaro, S.Jarecki, J.Kim, G. Tsudik
Privacy-preserving Policy-based Information Transfer
Privacy Enhancing Technologies Symposium (PETS 2009)

Other Publications

1. M. Muthu Selva Annamalai, B. Balle, J. Hayes, G. Kaissis, E. De Cristofaro
SoK: The Hitchhiker's Guide to Efficient, End-to-End, and Tight DP Auditing
4th IEEE Secure and Trustworthy Machine Learning Conference (IEEE SaTML 2026)

2. 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)

3. 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)

4. G. Ganev, 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)

5. G. Ganev, 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

6. E. De Cristofaro
Synthetic Data: Methods, Use Cases, and Risks
IEEE Security and Privacy Magazine – Special Issue on Synthetic Realities, 2024

7. 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

8. 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)

9. 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)

10. E. De Cristofaro
A Critical Overview of Privacy in Machine Learning
IEEE Security & Privacy Magazine, Volume 19, Issue 4, July-August 2021

11. 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)

12. 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

13. 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)

14. 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)

15. 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

16. 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

17. 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
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26. M. Ikram, L. Onwuzurike, S. Farooqi, E. De Cristofaro, A. Friedman, G. Jourjon, D. Kaafar, M.Z. Shafiq
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35. 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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36. H. Asghar, L. Melis, C. Soldani, E. De Cristofaro, M.A. Kaafar, L. Mathy
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37. L. Melis, H. Asghar, E. De Cristofaro, D. Kaafar
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39. K. Krol, M.S. Rahman, S. Parkin, E. De Cristofaro, E. Vasserman
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40. J. Freudiger, E. De Cristofaro, A. Brito
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41. M. Nagy, T. Bui, E. De Cristofaro, N. Asokan, J. Ott, A.R. Sadeghi
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42. L. Onwuzurike and E. De Cristofaro
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45. G. Danezis and E. De Cristofaro
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IEEE European Conference on Web Services (ECOWS 2008)

81. E. De Cristofaro
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    Performance Evaluation for Web Services invocation over Bluetooth
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Patents

- Method and Apparatus for Preserving Privacy for Appointment Scheduling.
  US Patent US8667062B2. 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 US9817977B2. 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 US20150161398A1. 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, ACM IMC 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):** KDD 2024, PETS 2022 (Senior), ICWSM 2018, 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 Ganev, 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)