

Rebekah Overdorf, Ph.D.

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Professional Research Experience

- 09/2022 – ... ♦ **Assistant Professor.** University of Lausanne (UNIL).
11/2018 – 07/2022 ♦ **Postdoctoral Researcher.** École polytechnique fédérale de Lausanne (EPFL).
11/2017 – 11/2018 ♦ **Postdoctoral Researcher.** KU Leuven.
09/2012 – 11/2017 ♦ **Researcher Assistant.** Drexel University.

Education

- 2017 ♦ **Ph.D. Computer Science,** Drexel University, Philadelphia, PA, USA.
Thesis: *Bridging Distinct Domains in Privacy Related Learning Problems*
Supervisor: Rachel Greenstadt
2015 ♦ **M.Sc. Computer Science,** Drexel University, Philadelphia, PA, USA.
2012 ♦ **B.Sc. (With Honors) Computer Science, Mathematics,** Moravian College, Bethlehem, PA, USA.

Academic Service

- Vice-Chair Privacy Enhancing Technologies Symposium (PETS) — 2024
- Program The Web Conference 2023
- Committee Privacy Enhancing Technologies Symposium (PETS) 2019 — 2021, 2023
USENIX Security 2021 — 2023
Workshop on Attackers and Cyber-Crime Operations (WACCO) 2019 — 2022
Symposium on Electronic Crime Research (eCrime) 2020 — 2024
European Symposium on Research in Computer Security 2021
Workshop on the Economics of Information Security (WEIS) 2020
Workshop on Privacy in the Electronic Society (WPES) 2020
Workshop on Artificial Intelligence and Security (AISec) 2019, 2020
Security and AI Networking Conference (ScAINet) 2019
- Workshop Hot Topics in Privacy Enhancing Technologies (HotPETS) 2022, 2023
- Co-chair Privacy and Ethics in Eye Tracking (PrETHics) 2022
- Publicity Privacy Enhancing Technologies Symposium (PETS) 2019 — 2022
- Co-chair

Funding

- Fellowship **Information Controls Fellow (2019/2020).** Open Tech Fund.
Working with online social networking data in Central Asia to:
- Identify fake accounts
 - Identify the propaganda and disinformation they spread
 - Monitor and assess their activities
 - Understand their effect on the overall network

Funding (continued)

Investigator **Harmful Information Against Humanitarian Organizations.** Science And Technology For Humanitarian Action Challenges (HAC).
Joint project with the ICRC to address the challenges of measuring online attacks against humanitarian organizations.

Awards

Best Paper Award Finalist Conference on Computer and Communications Security, 2018

Caspar Bowden PET award runner-up, 2018

HotPETs Best Talk Award, Privacy Enhancing Technologies Symposium 2019

HotPETs Best Talk Award, Privacy Enhancing Technologies Symposium 2018

Invited Talks and Panels

Invited Keynote at Workshop on Attackers and Cyber-Crime Operations (WACCO). July 3, 2023.

Deceiving Author Profiling
RightsCon Workshop. June 6, 2023

Invited Panelist at Privacy Camp: Platform Resistance and Data Rights. January 26, 2021.

Invited Lecturer at Foundation of ICT for decision makers hosted by the International Committee of the Red Cross (ICRC) . November 25, 2020.

Invited Speaker at Manipulating elections in cyberspace: are democracies in danger? October 6, 2020.

Invited Panelist and Speaker at Applied Machine Learning for Social & Environmental Problems (ML4SEP). October 4, 2019.

Invited Panelist at Technical Solutions to Cybercrime at Central Asia Security Forum on Countering Extremism Online. September 13-14, 2018.

Invited Panelist on AI and Cybercrime at Council of Europe Octopus Conference. July 12-13, 2018.

The Fingerprintability of Tor Onion Services.

Invited Talk at CyberSeed, University of Connecticut. October 19, 2017.

How Unique is Your .onion? An Analysis of the Fingerprintability of Tor Onion Services.

Invited Talk at the IMDEA Software Institute. March 28, 2017.

How Unique is Your .onion? An Analysis of the Fingerprintability of Tor Onion Services.

Invited Talk at New York University. March 24, 2017.

Blogs, Comments, and Twitter Feeds: A Study of Domain Adaptation in Stylometry.

Invited Talk at Technische Universität München, July 130, 2014.

Other

Languages English (Native). Spanish (Intermediate). French (Beginner).

Nationality American.

Research Output

Conference/Journal Papers

- 1 Elmas, T., **Overdorf, R.**, & Aberer, K. (2023). [Misleading repurposing on twitter](#). *Proceedings of the International AAAI Conference on Web and Social Media (ICWSM'23)*.
- 2 Gressel, C., **Overdorf, R.**, Hagenstedt, I., Karaboga, M., Lurtz, H., Raschke, M., & Bulling, A. (2023). [Privacy-Aware Eye Tracking: Challenges and Future Directions](#). *IEEE Pervasive Computing*.
- 3 Elmas, T., Ibanez, T. R., Hutter, A., **Overdorf, R.**, & Aberer, K. (2022). [WayPop Machine: A Wayback Machine to Investigate Popularity and Root Out Trolls](#) [short paper]. *Foundations of Open Source Intelligence and Security Informatics*.
- 4 Elmas, T., **Overdorf, R.**, & Aberer, K. (2022). [Characterizing Retweet Bots: The Case of Black Market Accounts](#). *Proceedings of the International AAAI Conference on Web and Social Media*.
- 5 Elmas, T., **Overdorf, R.**, & Aberer, K. (2021b). [A Dataset of State-Censored Tweets](#) [dataset paper]. *Proceedings of the Fifteenth International AAAI Conference on Web and Social Media, ICWSM 2021*.
- 6 Elmas, T., **Overdorf, R.**, Özkalay, A. F., & Aberer, K. (2021). [Ephemeral Astroturfing Attacks: The Case of Fake Twitter Trends](#). *IEEE European Symposium on Security and Privacy, EuroSP*.
- 7 Kulynych, B., **Overdorf, R.**, Troncoso, C., & Gürses, S. F. (2020). [POTs: protective optimization technologies](#). *FAT* '20: Conference on Fairness, Accountability, and Transparency*.
- 8 Dauber, E., **Overdorf, R.**, & Greenstadt, R. (2017). [Stylometric authorship Attribution of Collaborative Documents](#). *Cyber Security Cryptography and Machine Learning, (CSCML)*.
- 9 **Overdorf, R.**, Juárez, M., Acar, G., Greenstadt, R., & Díaz, C. (2017). [How Unique is Your .onion?: An Analysis of the Fingerprintability of Tor Onion Services](#) [**Best Paper Award Finalist, 2018 Caspar Bowden PET award runner-up**]. *ACM SIGSAC Conference on Computer and Communications Security, CCS*.
- 10 **Overdorf, R.**, & Greenstadt, R. (2016). [Blogs, Twitter Feeds, and Reddit Comments: Cross-domain authorship Attribution](#). *Proceedings on Privacy Enhancing Technologies (PoPETs)*.
- 11 Garg, V., Afroz, S., **Overdorf, R.**, & Greenstadt, R. (2015). [Computer-Supported Cooperative Crime](#) [short paper]. *Financial Cryptography and Data Security (FC)*.
- 12 Stolerman, A., **Overdorf, R.**, Afroz, S., & Greenstadt, R. (2014). [Breaking the Closed-World Assumption in Stylometric authorship Attribution](#). *Advances in Digital Forensics X (IFIP WG)*.
- 13 **Overdorf, R.**, & Lang, M. (2011). [Reaching out to aid in retention: empowering undergraduate women](#). *ACM Technical Symposium on Computer science Education (SIGCSE)*.

Unpublished Preprints

- 1 **Overdorf, R.**, Troncoso, C., Greenstadt, R., & McCoy, D. (2018). [Under the Underground: Predicting Private Interactions in Underground Forums](#).

Workshop Papers, etc.

- 1 Elmas, T., **Overdorf, R.**, & Aberer, K. (2021a). [Tactical Reframing of Online Disinformation Campaigns Against The Istanbul Convention](#). *Workshop on Data for the Wellbeing of Most Vulnerable (ICWSM Workshop)*.
- 2 Elmas, T., Hardi, K., **Overdorf, R.**, & Aberer, K. (2020). [Can Celebrities Burst Your Bubble? Innovative Ideas in Data Science](#) (*The Web Conference Workshop*).

- 3 Schwartz, C., & Overdorf, R. (2020). [Disinformation from the Inside: Combining Machine Learning and Journalism to Investigate Sockpuppet Campaigns](#). *CyberSafety (The Web Conference Workshopp)*.
- 4 Overdorf, R., Kulynych, B., & Gürses, S. (2019). A guide to revolutionary counter-optimization. *Internet Freedom Festival (IFF)*.
- 5 Schwartz, C., & Overdorf, R. (2019). [Subtle Censorship via Adversarial Fakeness in Kyrgyzstan \[HotPETs Best Talk Award\]](#). In *Workshop on Hot Topics in Privacy Enhancing Technologies (HotPETs)*.
- 6 Gürses, S., Overdorf, R., & Balsa, E. (2018). [POTs: The revolution will not be optimized? \[HotPETs Best Talk Award\]](#). *Workshop on Hot Topics in Privacy Enhancing Technologies (HotPETs)*.
- 7 Overdorf, R., Kulynych, B., Balsa, E., Troncoso, C., & Gürses, S. (2018). [Questioning the assumptions behind fairness solutions](#). *Critiquing and Correcting Trends in Machine Learning (NeurIPS Workshop)*.
- 8 Overdorf, R., Dutko, T., & Greenstadt, R. (2014). [Blogs and Twitter Feeds: A Stylometric Environmental Impact Study](#). *Workshop on Hot Topics in Privacy Enhancing Technologies (HotPETs)*.
- 9 Overdorf, R., Islam, A. C., & Greenstadt, R. (2014). [Source Code and Cross Domain Stylometry. Role of Stylometry in Privacy](#). *Chaos Communication Congress (CCC)*.