# THERESA STADLER

Researcher in Privacy and Trustworthy AI

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🞓 GoogleScholar

Personal Web

in LinkedIn

## EXPERIENCE -

Research and Teaching	Since 2025
Research on privacy-enhancing technologies, such preserving machine learning. Lectures at BSc and MSc	
<b>PhD Research Assistant -</b> EPFL (CH) Research and Teaching	2019 - 2024
Several high impact publications in the fields of data pri	ivacy and trustworthy machine learning.
<b>Research Scientist -</b> Privitar (UK) Research and Product Development	2016 - 2019
Designed, developed, and prototyped enterprise softwa scale.	are that implements privacy-enhancing technologies at
<b>Graduate Student Research Assistant -</b> Werner Reichar Experimental Research and Data Analysis Statistical models of visual information processing in ref	
Student Research Assistant - University of Erlangen (DE	
Experimental Research and Data Analysis Electrophysiology and biophysical modelling of voltag nisms of chronic pain disorders.	
DUCATION	
<b>PhD in Computer Science -</b> <i>EPFL (CH), SPRING Lab</i> PhD Thesis: On the Fundamental Limits of Privacy-Enha	2019 - 2024 ancing Technologies.
<b>MSc in Computational Neuroscience -</b> University of Tüb Lectures in Statistics, Machine Learning, Dynamic Syste	
<b>BSc in Biomathematics -</b> <i>University of Erlangen (DE)</i> Lectures in Statistics, Linear Algebra, Physics, and Biolo	2011 - 2014 DGY
Lectures in Statistics, Linear Algebra, Physics, and Biolo	
Lectures in Statistics, Linear Algebra, Physics, and Biolo	
Lectures in Statistics, Linear Algebra, Physics, and Biolo RANTS & AWARDS	рду
Lectures in Statistics, Linear Algebra, Physics, and Biolo RANTS & AWARDS Nominee for the EPFL Doctorate Award - EPFL (CH)	2024 2021
Lectures in Statistics, Linear Algebra, Physics, and Biolo RANTS & AWARDS Nominee for the EPFL Doctorate Award - EPFL (CH) Teaching Assistant Award - EPFL IC (CH) Graduate Grant - Studienstiftung des Deutschen Volkes	2024 2021
Lectures in Statistics, Linear Algebra, Physics, and Biolo RANTS & AWARDS Nominee for the EPFL Doctorate Award - EPFL (CH) Teaching Assistant Award - EPFL IC (CH) Graduate Grant - Studienstiftung des Deutschen Volkes ( ELECTED INVITED TALKS	2024 2021 ( <i>DE</i> ) 2011 - 2016
Lectures in Statistics, Linear Algebra, Physics, and Biolo RANTS & AWARDS Nominee for the EPFL Doctorate Award - EPFL (CH) Teaching Assistant Award - EPFL IC (CH) Graduate Grant - Studienstiftung des Deutschen Volkes ( ELECTED INVITED TALKS alk On the Fundamental Limits of Privacy-Enf Invited talk at the Responsible AI seminar.	2024 2024 (DE) 2011 - 2016 hancing Technologies - Nokia Bell Labs serving data sharing technologies - Brussels Privacy Hu
Lectures in Statistics, Linear Algebra, Physics, and Biolo   iRANTS & AWARDS   Nominee for the EPFL Doctorate Award - EPFL (CH)   Teaching Assistant Award - EPFL IC (CH)   Graduate Grant - Studienstiftung des Deutschen Volkes (CH)   ELECTED INVITED TALKS   alk On the Fundamental Limits of Privacy-Enflicity invited talk at the Responsible AI seminar.   ecture On the fundamental limits of privacy-press   Lecture at the Summer Academy For Global	2024 2024 (DE) 2011 - 2016 hancing Technologies - Nokia Bell Labs serving data sharing technologies - Brussels Privacy Hu al Privacy Law 2024 here next for data use and regulation? - CPDP
Lectures in Statistics, Linear Algebra, Physics, and Biolo   iRANTS & AWARDS   Nominee for the EPFL Doctorate Award - EPFL (CH)   Teaching Assistant Award - EPFL IC (CH)   Graduate Grant - Studienstiftung des Deutschen Volkes (ELECTED INVITED TALKS   alk On the Fundamental Limits of Privacy-Enf Invited talk at the Responsible AI seminar.   ecture On the fundamental limits of privacy-press   Lecture at the Summer Academy For Globa   anel Looking beyond the EU data strategy: Wh	2024 2024 (DE) 2011 - 2016 hancing Technologies - Nokia Bell Labs serving data sharing technologies - Brussels Privacy HL al Privacy Law 2024 here next for data use and regulation? - CPDP and regulations A cautionary tale - MIT

Podcast Privacy Engineering - They Talk Tech Podcast Available at frauen-technik.podigee.io

News Article	<b>Warum wollen plötzlich alle Luca? -</b> Eva Wolfangel, Die Zeit Available at zeit.de	2021	
News Article	<b>EU privacy experts push a decentralized approach to COVID-19 contacts tracing -</b> <i>TechCrunch</i> Available at techcrunch.com	2020	
News Article	<b>Coronavirus apps: the risk of slipping into a surveillance state</b> <i>Financial Times</i> Available at ft.com	2020	
SELECTED ACADEMIC SERVICE & INVITED REVIEWS			
PC Member	Conference on Fairness, Accountability, and Transparency - FAccT	2024	
PC Member	Privacy Enhancing Technologies Symposium - PETS	2019-2025	
Invited Reviewer	Workshop on Privacy in Machine Learning - NeurIPS'21	2021	
External Reviewer	Conference on Computer and Communications Security - CCS'19	2019	
Reviewer	<b>Rethinking data and balancing digital power</b> by the Ada Lovelace Institute Report on a future vision for data use and regulation. Available at adalovelaceinstitute.org	2022	

### SELECTED PUBLICATIONS

T. Stadler, B. Kulynych, N. Papernot, M. Gastpar, and C. Troncoso. The fundamental limits of least-privilege learning. In *Proceedings of the 41th International Conference on Machine Learning (ICML 24)*, 2024

T. Stadler, B. Oprisanu, and C. Troncoso. Synthetic data – Anonymisation Groundhog Day. In 31st USENIX Security Symposium (USENIX Security 22), 2022

T. Stadler and C. Troncoso. Why the search for a privacy-preserving data sharing mechanism is failing. *Nature Computational Science*, 2022

C. Troncoso, T. Stadler, D. Bogdanov, E. Bugnion, S. Chatel, C. Cremers, S. Gürses, J.-P. Hubaux, D. Jackson, J. R. Larus, et al. Deploying decentralized, privacy-preserving proximity tracing. *Communications of the ACM*, 2022

2021

2020

2024

2022

T. Stadler, W. Lueks, K. Kohls, and C. Troncoso. Preliminary analysis of potential harms in the luca tracing system. *arXiv preprint arXiv:2103.11958*, 2021

C. Troncoso, M. Payer, J.-P. Hubaux, M. Salathé, J. Larus, E. Bugnion, W. Lueks, T. Stadler, A. Pyrgelis, D. Antonioli, et al. Decentralized privacy-preserving proximity tracing. *arXiv preprint arXiv:2005.12273*, 2020

V. von Wyl, S. Bonhoeffer, E. Bugnion, M. A. Puhan, M. Salathé, T. Stadler, C. Troncoso, E. Vayena, and N. Low. A research agenda for digital proximity tracing apps. *Swiss Medical Weekly*, 2020

M. Salathé, C. L. Althaus, N. Anderegg, D. Antonioli, T. Ballouz, E. Bugnion, S. Capkun, D. Jackson, S.-I. Kim, J. Larus, et al. Early evidence of effectiveness of digital contact tracing for sars-cov-2 in switzerland. *medRxiv*, 2020

#### PATENTS

#### 2023

2022

J. D. McFALL, C. C. Cabot, T. J. Moran, K. F. P. Guinamard, V. M. Eatwell, B. T. Pickering, P. D. Mellor, T. Stadler, A. Petre, C. A. Smith, et al. Computer-implemented privacy engineering system and method, Nov. 9 2023. US Patent App. 18/349,223

C. C. Cabot, K. F. P. Guinamard, J. D. McFALL, P.-a. Maugis, P. Hector, B. T. Pickering, T. Stadler, J.-a. Tay, and S. Weller. Method or system for querying a sensitive dataset, Sept. 1 2022. US Patent App. 17/618,765