

DR. RER. NAT. (EQUIVALENT TO PHD) · HE/HIM

Washington, D.C., USA

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My research focuses on human factors in trustworthy AI, and human-centered privacy and security. I use qualitative and quantitative methods from human-computer interaction, software engineering, social sciences, psychology, and economics.

Education	
Ph.D. in Computer Science (Dr. rer. nat., summa cum laude) GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN Advisors: Professors DrIng. Delphine Reinhardt and DrIng. Luigi Lo Iacono	07/2019 - 08/2022 Göttingen, Germany
M.Sc. in Media Technology TECHNISCHE HOCHSCHULE KÖLN UNIVERSITY OF APPLIED SCIENCES Thesis Advisors: Professors DrIng. Luigi Lo Iacono and DrIng. Matthew Smith	09/2016 - 01/2019 Cologne, Germany
B.Sc. in Media Technology TECHNISCHE HOCHSCHULE KÖLN UNIVERSITY OF APPLIED SCIENCES Thesis Advisors: Professors DrIng. Luigi Lo Iacono and DrIng. Arnulph Fuhrmann	09/2012 - 08/2016 Cologne, Germany
Professional Experience	
Postdoctoral Associate (AI Fellow) THE GEORGE WASHINGTON UNIVERSITY Institute for Trustworthy AI in Law & Society Department of Computer Science Supervisor: Prof. Adam J. Aviv, Ph.D.	02/2024 - present Washington D.C., USA
Part-Time Faculty The George Washington University Department of Computer Science	08/2024 - present Washington D.C., USA
External Lecturer HOCHSCHULE BONN-RHEIN-SIEG UNIVERSITY OF APPLIED SCIENCES Institute for Cyber Security & Privacy Department of Computer Science	03/2023 - 09/2023 Sankt Augustin, Germany
Research Associate Hochschule Bonn-Rhein-Sieg University of Applied Sciences Institute for Cyber Security & Privacy Department of Computer Science Supervisor: Prof. DrIng. Luigi Lo Iacono	06/2020 - 02/2024 Sankt Augustin, Germany
Research Associate Technische Hochschule Köln University of Applied Sciences	03/2018 - 05/2020 Cologne, Germany

Institute for Media and Photo Technology

Supervisor: Prof. Dr.-Ing. Luigi Lo Iacono

Faculty of Information, Media, and Electrical Engineering

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Team Software Development

Publications_

PEER-REVIEWED RESEARCH ARTICLES

- [PETS 24] Florian Dehling, **Jan Tolsdorf**, Hannes Federrath, and Luigi Lo Iacono. "Internet Users' Willingness to Disclose Biometric Data for Continuous Online Account Protection: An Empirical Investigation". In: *Proceedings on Privacy Enhancing Technologies (PoPETs)* 2024.2 (2024).
- [HCICPT 24] **Jan Tolsdorf** and Luigi Lo Iacono. "Expert Perspectives on Information Security Awareness Programs in Medical Care Institutions in Germany". In: *Proceedings of the 6th International Conference on HCI for Cybersecurity, Privacy and Trust (HCI-CPT)*. 2024.
- [BIT 22] **Jan Tolsdorf**, Florian Dehling, and Luigi Lo Iacono. "Data Cart Designing a Tool for the GDPR-compliant Handling of Personal Data by Employees". In: *Behaviour & Information Technology (BIT)* 41.10 (2022).
- [PETS 22] **Jan Tolsdorf**, Delphine Reinhardt, and Luigi Lo Iacono. "Employees' privacy perceptions: exploring the dimensionality and antecedents of personal data sensitivity and willingness to disclose". In: *Proceedings on Privacy Enhancing Technologies (PoPETs)* 2022.2 (2022).
- [SPOSE 22] Stephan Wiefling, **Jan Tolsdorf**, and Luigi Lo Iacono. "Data Protection Officers' Perspectives on Privacy Challenges in Digital Ecosystems". In: *Proceedings of the 4th Workshop on Security, Privacy, Organizations, and Systems Engineering (SPOSE)*. 2022.
- [TrustBus 21] Florian Dehling, Denis Feth, Svenja Polst, Bianca Steffes, and **Jan Tolsdorf**. "Components and Architecture for the Implementation of Technology-driven Employee Data Protection". In: *Proceedings of the 18th International Conference on Trust, Privacy and Security in Digital Business (TrustBus)*. 2021.
- [DuD 21b] Svenja Polst, **Jan Tolsdorf**, Florian Dehling, and Denis Feth. "Verarbeitung von Beschäftigtendaten". In: *Datenschutz und Datensicherheit (DuD)* 45.1 (2021).
- [DuD 21a] **Jan Tolsdorf**, Florian Dehling, and Denis Feth. "Benutzerfreundlicher Datenschutz in Cloud-basierten Office-Paketen". In: *Datenschutz und Datensicherheit (DuD)* 45.1 (2021).
- [PETS 21] **Jan Tolsdorf**, Florian Dehling, Delphine Reinhardt, and Luigi Lo Iacono. "Exploring mental models of the right to informational self-determination of office workers in Germany". In: *Proceedings on Privacy Enhancing Technologies (PoPETs)* 2021.3 (2021).
- [APF 21] **Jan Tolsdorf**, Michael Fischer, and Luigi Lo Iacono. "A Case Study on the Implementation of the Right of Access in Privacy Dashboards". In: *Proceedings of the 9th Annual Privacy Forum (APF)*. 2021.
- [IWPE 21] Stephan Wiefling, **Jan Tolsdorf**, and Luigi Lo Iacono. "Privacy Considerations for Risk-based Authentication Systems". In: *Proceedings of the 7th IEEE International Workshop on Privacy Engineering (IWPE)*. 2021.
- [IRIS 20] Christian K. Bosse, Aljoscha Dietrich, Patricia Kelbert, Hagen Küchler, Hartmut Schmitt, **Jan Tolsdorf**, and Andreas Weßner. "Beschäftigtendatenschutz: Rechtliche Anforderungen und Technische Lösungskonzepte". In: *Tagungsband des 23. Internationalen Rechtsinformatik Symposions IRIS 2020*. 2020.
- [DuD 20] **Jan Tolsdorf**, Christian K. Bosse, Aljoscha Dietrich, Denis Feth, and Hartmut Schmitt. "Privatheit am Arbeitsplatz Transparenz und Selbstbestimmung bei Arbeit 4.0". In: *Datenschutz und Datensicherheit (DuD)* 44.3 (2020).
- [AsiaUSEC 20] **Jan Tolsdorf** and Florian Dehling. "In Our Employer We Trust: Mental Models of Office Workers' Privacy Perceptions". In: *Proceedings of the 1st Asian Workshop on Usable Security (AsiaUSEC, FC workshop)*. 2020.
- [ITG News 20] **Jan Tolsdorf**, Florian Dehling, and Luigi Lo Iacono. "Take Back Control! The Use of Mental Models to Develop Privacy Dashboards". In: *ITG News* 8.3 (2020). Edited by Informationstechnische Gesellschaft im VDE.
- [EuroUSEC 20] **Jan Tolsdorf** and Luigi Lo Iacono. "Vision: Shred If Insecure Persuasive Message Design as a Lesson and Alternative to Previous Approaches to Usable Secure Email Interfaces". In: *Proceedings of the 5th European Workshop on Usable Security (EuroUSEC)*. 2020.

- [ECCWS 18] Nils Gruschka, Luigi Lo Iacono, and **Jan Tolsdorf**. "Classification of Android App Permissions: Tell Me What App You Are and I Tell You What You Are Allowed to Do". In: *Proceedings of the 17th European Conference on Cyber Warfare and Security (ECCWS)*. 2018.
- [TrustBus 17] Hoai Viet Nguyen, **Jan Tolsdorf**, and Luigi Lo Iacono. "On the Security Expressiveness of REST-Based API Definition Languages". In: *Proceedings of the 14th International Conference on Trust, Privacy and Security in Digital Business (TrustBus)*. 2017.

FURTHER PUBLICATIONS AND REPORTS

- [KTM 23b] **Jan Tolsdorf** and Luigi Lo Iacono. "Faktor Mensch: Risiko und Chance: Informationssicherheitsbewusstsein in medizinischen Einrichtungen Expertenansichten (Teil 2)". In: *Krankenhaus Technik+Management (KTM)* 2023.9 (2023).
- [KTM 23a] **Jan Tolsdorf** and Luigi Lo Iacono. "Medizinisches Personal sensibilisieren: Bewusstsein für Gefährdungen der Patientenversorgung aus dem Cyberraum schaffen Teil 1". In: *Krankenhaus Technik+Management (KTM)* 2023.7-8 (2023).
- [BMBF 22] Luigi Lo Iacono and **Jan Tolsdorf**. Schlussbericht des Teilvorhabens "Konzeptionierung, Implementierung und Evaluation von Privacy-Dashboards im Arbeitnehmerdatenschutz" im Rahmen des Verbundprojekts "TrUSD Transparente und selbstbestimmte Ausgestaltung der Datennutzung im Unternehmen". Technical report. Hochschule Bonn-Rhein-Sieg, 2022.
- [DISS 22] **Jan Tolsdorf.** "Investigation of Information Privacy in Employment: Fundamental Knowledge and Practical Solutions for the Human-Centered Design of Measures to Preserve the Right to Informational Self-Determination in Employment". Dissertation. 2022.

BOOK CHAPTERS

- [Book 23b] Eduard C. Groen, Denis Feth, Svenja Polst, **Jan Tolsdorf**, Stephan Wiefling, Luigi Lo Iacono, and Hartmut Schmitt. "Achieving Usable Security and Privacy Through Human-Centered Design". In: *Human Factors in Privacy Research*. Edited by Nina Gerber, Alina Stöver, and Karola Marky. 2023.
- [GI 23] **Jan Tolsdorf.** "Informationelle Privatheit im Beschäftigungsverhältnis". In: *Ausgezeichnete Informatikdissertationen 2022 (Band D23)*. 2023.
- [Book 23a] **Jan Tolsdorf** and Luigi Lo Iacono. "Data Cart: A Privacy Pattern for Personal Data Management in Organizations". In: *Human Factors in Privacy Research*. Edited by Nina Gerber, Alina Stöver, and Karola Marky. 2023.

Awards, Fellowships, & Grants -

Nominee for the Dissertation Award 2022 of the German Informatics Society, Georg-August-Universität Göttingen		2023
Doctoral Thesis Award Bonn-Rhein-Sieg University Society 2022, Hochschulgesellschaft Bonn-Rhein-Sieg e. V.	€ 1,000	2023
GAUSS Book Award in recognition of outstanding doctoral achievements,		2022
		2022

Invited Talks & Guest Lectures _

Invited talk, The George Washington University, Washington, D.C., USA "Enabling Human-Centered Privacy and Security Engineering"

Spring '23

Invited talk, Stammtisch Cyber Security Cluster Bonn e. V., Bonn, Germany

Winter '23

"'Das Verfahren ist nicht neu [...] aber Sie erreichen damit niemanden mehr' – Maßnahmen zur Steigerung von Informationssicherheitsbewusstsein in medizinischen Versorgungseinrichtungen. (Engl.: Measures to increase information security awareness in medical care facilities.)"

Invited talk, Hochschulgesellschaft Bonn-Rhein-Sieg e. V., Sankt Augustin, German "Employee-Centered Design of Technical and Organizational Privacy Measures"	ny	Winter '22
Invited talk, CS Colloquium, Karlstad University, Karlstad, Sweden "Employee-Centered Design of Technical and Organizational Privacy Measures"		Winter '22
Invited talk, AFSecurity Seminar, University of Oslo, Oslo, Norway "Employee-Centered Design of Technical and Organizational Privacy Measures"		Winter '22
Guest lecture , Friedrich-Alexander-Universität, Erlangen-Nürnberg, Germany "Employees' Mental Models of the Right to Privacy: Insights from Germany"		Summer '22
Inited talk, Usable Security and Privacy (USP) Day, VDE ITG, Online, Germany "Data Cart - Designing a tool for the GDPR-compliant handling of personal data by e	mployees"	Summer '22
Guest lecture , Georg-August-Universität, Göttingen, Germany "Employees' Mental Models of the Right to Privacy: Insights from Germany"		Winter '21
Guest lecture , Georg-August-Universität, Göttingen, Germany "Employees' Mental Models of the Right to Privacy: Insights from Germany"		Winter '20
Invited talk, Georg-August-Universität Göttingen, Göttingen, Germany "Das Privacy-paradoxon – Der Scheinbare Widerspruch Zwischen Bedenken Und Verl (Engl.: The Privacy Paradox - the Apparent Contradiction Between Privacy Concerns		Spring '19 ?
Teaching & Mentoring		
LECTURER/ INSTRUCTOR		
Co-Instructor in "CSCI 4533/6533 Introduction to Usable Security and Privacy"	BS, MS, PhD course	Fall '24
Instructor / External Lecturer in "Privacy Engineering"	B.Sc. Course	Summer '23
Tutor & Teaching Assistance		
Teaching Assistant in "Privacy and Security" Supervising and evaluating seminar papers	B.Sc. Course	Winter '23/'24 Winter '22/'23
Teaching Assistant in "Data Protection, IT Law and Privacy" Preparing courses and exercises	B.Sc. Course	Winter '21/'22 Winter '20/'21
Teaching Assistant in "Advanced Topics in Security and Privacy" Supervising and evaluating seminar papers	M.Sc. Course	Summer '21
Teaching Assistant in "Privacy and Security" Supervising and evaluating seminar papers	M.Sc. Course	Summer '20 Winter '19/'20
Teaching Assistant in "Web Programming" Supervising lab exercises	B.Sc. Course	Summer '20 Summer '19 Summer '18
Teaching Assistant in "Informatics 1" Tutoring and reviewing programming exercises	B.Sc. Course	Winter '14/'15

STUDENT MENTORING

Arwa Alshadi, Ph.D. student
Junho Eum, Ph.D. student
Wellington Esposito Barbosa, Ph.D. student
Monica Kodwani, Ph.D. student
Cole Knie, MS student
Philip Erdmann, BS student, Alumni
Marian Hönscheid, BS student, Alumni

SUPERVISED STUDENT THESIS

A. Portz. "Datenschutzkonformität von Dashcams. (Engl.: Data Protection Compliance of Dashcams.)"	B.Sc. Thesis	2024
L. Rohé . "Auswirkung von Nudging auf Security Fatigue am Beispiel Passwortwahl. (Engl.: Effects of Nudging on Security Fatigue Using the Example of Password Selection.)"	B.Sc. Thesis	2022
M. Fischer. "Privacy Dashboards – Untersuchung verschiedener Dashboards von Unternehmen im Hinblick auf die Anforderungen der DSGVO. (Engl.: Privacy Dashboards - Examination of Various Dashboards of Companies Regarding the Requirements of the GDPR.)"	B.Sc. Thesis	2021
F. Dehling. "Investigations on Utilizing Web Browser Caches for User Tracking."	M.Sc. Thesis	2020

Service ____

PC MEMBER

Annual Privacy Forum: 2023, 2024

EuroUSEC: 2023, 2024

Usable Security and Privacy Workshop: 2020, 2021, 2022, 2023, 2024

EXT. REVIEWER
ACM CHI: 2022, 2024

International Journal of Human-Computer Interaction: 2022, 2023, 2024

Behaviour & Information Technology: 2022

EXAMINER

Bachelor Thesis Bonn-Rhein-Sieg University of Applied Sciences: 2024

Master Thesis University of Oslo: 2021