Till Winkler, PhD

Postdoctoral Researcher
Human Rights and Technology Research Group
Interdisciplinary Transformation University (IT:U) Austria

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PROFESSIONAL EXPERIENCE

since 2025 — **Postdoctoral Researcher**
Human Rights and Technology Research Group
Interdisciplinary Transformation University (IT:U) Austria, Linz
Values and human rights in software development processes, and legal aspects of technology

since 2025 — **Visiting Researcher**
AI Futures Lab
Delft University of Technology (TU Delft)

since 2024 — **Lecturer**
University of Applied Sciences for Business & Society BFI Vienna

2024 – 2027 — **Researcher**
Mindcoa.ch GmbH
Digital support for the well-being of adolescents

2023 – 2026 — **Lecturer**
Vienna University of Economics and Business (WU)

2016 – 2023 — **Research and Teaching Associate**
Department of Information Systems and Operations Management
Vienna University of Economics and Business (WU)
Software engineering and programming education

EARLIER RESEARCH EXPERIENCE

2015 — **Research Assistant**
Bartenbach
Usability and user experience research

2013 — **Research Assistant**
Medical University of Innsbruck
Analysis of heart rate variability data

2012 – 2013 — **Research Assistant**
University of Innsbruck
Process modelling and eye-tracking studies

2012 — **Research Assistant**
Medical University of Innsbruck
Research on conditioned place preference

EDUCATION

2016 – 2023 — **PhD**
Department of Information Systems and Operations Management
Vienna University of Economics and Business (WU)
Thesis: "A Concept for Evaluating Value-oriented Frameworks in Software Engineering"

2014 – 2016 — **MSc in Psychology**
University of Innsbruck
Thesis: "Effects of video games on learning and aggression: An open-source toolkit to improve research quality and find common ground for further research in the field of video game play effects"

AWARDS

2023 — **Living Standards Award**
with Sarah Spiekermann-Hoff and Alexander Novotny

RESEARCH FUNDING

2022 — **Research grant**
Wissenschaft und Forschung, City of Vienna (MA 7)

2019 — **Research grant**
Jubiläumsfonds der Stadt Wien

2018 — **Research grant**
Assistent/inn/en-Kleinprojekte
Vienna University of Economics and Business (WU)

TEACHING

since 2024 — **Software Architecture and Design**
University of Applied Sciences for Business & Society BFI Vienna
Software quality, architecture and design patterns in Java, software architecture, design principles (KISS, DRY, SOLID).

since 2024 — **Foundations in Java**
University of Applied Sciences for Business & Society BFI Vienna

since 2023 — **Corporate IT I — Information Structures**
Vienna University of Economics and Business (WU)
HTML, CSS, Bootstrap, JavaScript, PHP, JSON, XML, AJAX.

since 2017 — **Foundations of Information and Communication Technology**
Vienna University of Economics and Business (WU)
Ubiquitous computing; identification, sensor and location systems; business intelligence; privacy; security; ISMS; cryptography.

2022 — **Business Programming 1 and 2**
Vienna University of Economics and Business (WU)
Object-oriented programming, debugging, concurrency, Java classes, ActiveX automation, portable GUIs (JavaFX).

2020 — **Value-based Engineering with ISO/IEC/IEEE 24748-7000**
Vienna University of Economics and Business (WU)
Human values, requirements engineering, risk-based design, utilitarianism, virtue ethics, deontological ethics.

2017 — **Intelligent Customer Interaction**
Vienna University of Economics and Business (WU)
Design thinking, human-computer interaction, stakeholder inclusion, user modelling, usability, user experience.

SUPERVISION

21 Bachelor's theses

ACADEMIC SERVICE

2026 — **Workshop organisation**
TELIP 2026, Pisa

2019 — **Associate Editor**
International Conference on Information Systems (ICIS 2019)

2018 – 2020 — **Member of the Department Conference**
Vienna University of Economics and Business (WU)

Reviewing — **Conferences:** *NordiCHI (2026), ECIS (2019, 2023, 2026), CECIIS (2023), ICIS (2019, 2021), HICSS (2019), ISTAS (2018), AMCIS (2017)*
Journals: *Business & Information Systems Engineering (2021, 2022), Ethics and Information Technology (2018)*

MEMBERSHIPS

since 2025 — **Board member**
Rexx Language Association (RexxLA)

since 2021 — **Member**
Rexx Language Association (RexxLA)

2016 – 2021 — **Working group member**
ISO/IEC/IEEE 24748-7000, “Model Process for Addressing Ethical Concerns during System Design”

since 2017 **Member**
Chaos Computer Club (CCC)

since 2016 **Member**
IEEE

since 2016 **Member**
Privacy and Sustainable Computing Lab

PUBLICATIONS

In press Sekwenz, M., Winkler, T., Rebrean, M., Baranowska, N., Carrere, M., Malgieri, G., & Wagner, B. **Click, branch, audit: A decision-tree toolkit for assessing fundamental rights impacts under the Digital Services Act of very large platforms and search engines.** arxiv.org/abs/2609.26353

2025 Peer, S., Tomori, F., Wagner, B., & Winkler, T. **The potential impact of Google Maps on mode choices: Evidence from a stated preference experiment.** *Transportation Research Interdisciplinary Perspectives, 33, 101560*. doi:10.1016/j.trip.2025.101560

2025 Flatscher, R. G., & Winkler, T. **Erfolgsbedingungen für Anfänger zum Erlernen der Programmierung portabler GUIs in einem Semester.** *Software Engineering 2025 — Companion Proceedings: Fachtagung des GI-Fachbereichs Softwaretechnik, 24.–28. Februar 2025, Karlsruhe, pp. 123–125*.

2024 Flatscher, R. G., & Winkler, T. **Employing the message paradigm to ease learning object-oriented concepts and programming.** *MIPRO 2024 Proceedings: 47th ICT and Electronics Convention, pp. 1488–1493*. research.wu.ac.at/en/publications/employing-the-message-paradigm-to-ease-learning-object-oriented-c

2024 Flatscher, R. G., & Winkler, T. **Concepts that allow learning the programming language Rexx much faster than other languages.** *MIPRO 2024 Proceedings: 47th ICT and Electronics Convention, pp. 1494–1498*. doi:10.1109/MIPRO60963.2024.10569951

2024 Flatscher, R. G., & Winkler, T. **Devising a TraceObject class for improved runtime monitoring of ooRexx applications.** *VORTEX '24: Proceedings of the 7th ACM International Workshop on Verification and Monitoring at Runtime Execution, pp. 19–24*. doi:10.1145/3679008.3685543

2024 Flatscher, R. G., & Winkler, T. **Identifying potential deadlocked instructions in a multi-threaded ooRexx program.** *VORTEX '24: Proceedings of the 7th ACM International Workshop on Verification and Monitoring at Runtime Execution, pp. 38–43*. doi:10.1145/3679008.3685546

2023 Winkler, T. **A concept for evaluating value-oriented frameworks in software engineering.** *Doctoral dissertation, Vienna University of Economics and Business (WU)*. doi:10.57938/9b247aa3-cb28-45a1-8237-879020b9ff80

2023 Winkler, T., & Flatscher, R. G. **Cognitive load in programming education: Easing the burden on beginners with REXX.** *Proceedings of the 34th Central European Conference on Information and Intelligent Systems (CECIIS 2023), pp. 171–178*.

2022 Spiekermann, S., & Winkler, T. **Value-based engineering with IEEE 7000.** *IEEE Technology and Society Magazine, 41(3), 71–80*. doi:10.1109/MTS.2022.3197116

2021 Winkler, T., & Spiekermann, S. **Twenty years of value sensitive design: A review of methodological practices in VSD projects.** *Ethics and Information Technology, 23(1), 17–21*. doi:10.1007/s10676-018-9476-2

2021 Wagner, B., Winkler, T., & Human, S. **Bias in geographic information systems: The case of Google Maps.** *Proceedings of the 54th Hawaii International Conference on System Sciences (HICSS-54), pp. 837–846*. doi:10.24251/HICSS.2021.103

2020 Spiekermann, S., & Winkler, T. **Value-based engineering for ethics by design.** *arXiv preprint arXiv:2004.13676*. arxiv.org/abs/2004.13676

2020 Winkler, T. **Value sensitive design and agile development: Potential methods for value prioritization.** *Paradigm Shifts in ICT Ethics: Societal Challenges in the Smart Society. Proceedings of ETHICOMP 2020, pp. 289–298*.

2020 Bednar, K., & Winkler, T. **Ontologies and knowledge bases: A new way to represent and communicate values in technology design.** *Paradigm Shifts in ICT Ethics: Societal Challenges in the Smart Society. Proceedings of ETHICOMP 2020, pp. 257–270*.

2020 Logler, N., Jacobs, N., Melnyk, A., Poulsen, A., Raleigh, M. B., Winkler, T., & Borning, A. **PhD student perspectives on value sensitive design.** *Paradigm Shifts in ICT Ethics: Societal Challenges in the Smart Society. Proceedings of ETHICOMP 2020, p. 207*.

2020 Wagner, B., Winkler, T., Human, S., & Peer, S. **Do smartphone apps influence mode choice behavior among Viennese citizens?** *Accountable Mobility project, Vienna University of Economics and Business (WU)*.

2019 Wagner, B., & Winkler, T. **Comparing routing predictions: Travel time estimates and user accountability in navigation apps.** *Proceedings of the 27th European Conference on Information Systems (ECIS 2019)*.

2019 Winkler, T., & Spiekermann, S. **Human values as the basis for sustainable information system design.** *IEEE Technology and Society Magazine, 38(3), 34–43*. doi:10.1109/MTS.2019.2930268

2018 Winkler, T. **Human values as the basis for sustainable software development.** *2018 IEEE International Symposium on Technology and Society (ISTAS) Proceedings, pp. 37–42*. doi:10.1109/ISTAS.2018.8638287