

CURRICULUM VITAE

Assoc.-Prof. Dr. Viktoria Pammer-Schindler

Viktoria.Pammer-Schindler@mailbox.org

Web: <http://staff.tugraz.at/viktoria.pammer-schindler>

ORCID: <https://orcid.org/0000-0001-7061-8947>

Digital and AI-enabled technology, and the digital environments we live in, shape what is worth knowing, which knowledge is built, and how. My academic activities bring forward digital and AI technology that helps humans develop competent agency in their endeavours.

In this era of AI & data-driven technology, my knowledge & learning perspective is key to ensure humans' and society's competent agency and oversight.

- **Research approach:** Theory-led design of interactive and AI-enabled systems from a socio-technical and learning perspective, in the spirit of human-engaged and positive computing.
- **Technology focus:** Data analytics, AI, conversational systems, language-based interaction.
- **Methods:** Human-centered and socio-technical design; design, field and experimental studies; mixed methods – qualitative and quantitative data collection and analysis.

I have been the president of the International Alliance to Advance Learning in the Digital Era, and member of the European Association for Technology-Enhanced Learning's managing committee. Further, I have served the international scientific community as an external evaluator of research programs, grants and study programs (e.g., for the Leibniz society; the Dutch Research Council, for AQ Austria for a „Data Science for Sustainability“ masters program); in editorial and organisational roles for instance at the international A* conference ACM CHI; and as a special issue editor at renowned journals like the IEEE Transactions on Technologies for Learning and the British Journal of Educational Technology. (→ see CV p. 5ff below)

I engage in scientific outreach (e.g., public commentaries on ethics and AI) and responsible research (→ see CV p. 8ff below)

Academic milestones

- | | |
|------|---|
| 2019 | Habilitation (venia docendi) in applied computer science at Graz University of Technology (TU Graz). Thesis title: “ <i>Designing Data-Driven and Adaptive Technologies for Reflective Learning in the Workplace</i> ”. |
| 2010 | PhD (Dr. techn.) in computer science at TU Graz. Thesis title: “ <i>Automatic Support for Ontology Evaluation – Review of Entailed Statements and Assertional Effects for OWL Ontologies</i> ”. Graduated with distinction. |
| 2005 | Diploma in electrical engineering and computer science (Telematik) at TU Graz. Thesis title: “ <i>Ultra Wideband as Sensor Technology for 3D Mapping: A Feasibility Study</i> ”. Graduated with distinction. |
| 1999 | Matura. Graduated with distinction. |

Selected positions

- | | |
|-------------|--|
| 2025 – now | Deputy Head of the Institute of Human-Centred Computing (TU Graz) |
| 2020 – now | Associate professor, Graz University of Technology (TU Graz) |
| 2019 | Visiting professor (2 months): Inst. of Language Techn., Carnegie Mellon Univ., USA |
| 2018 | Visiting professor: (2 months) Deptmt. of Comp. Science, NTNU Tronhheim, Norway |
| 2015 | Visiting professor (2 months): IWM Tübingen, Germany |
| 2012 – 2020 | Assistant professor, TU Graz |
| 2012 – now | Research area head at the Know-Center, a non-for-profit research and innovation organization. Responsibilities: research, innovation, research management. |
| 2005 – 2011 | Postgraduate researcher positions at the TU Graz & Know-Center |

SELECTED PUBLICATIONS

Overall: 137 peer-reviewed publications, of which 31 journal articles and 60 conference papers. Selected publications showcase research with my PhD students as first authors (1-3, 5), own first authorship (4), and international collaboration (2, 4). (→ full list see website)

1. Mia Bangerl, Leonie Disch, Tamara David, & Viktoria Pammer-Schindler (2025). **CreAItive Collaboration? Users' Misjudgment of AI-Creativity Affects Their Collaborative Performance**. CHI 2025. A* Conference DOI: <https://dl.acm.org/doi/10.1145/3706598.3713886>
2. Irmtraud Wolfbauer, Viktoria Pammer-Schindler, Katharina Maitz & Carolyn Rosé (2022). **A Script for Conversational Reflection Guidance: A Field Study on Developing Reflection Competence with Apprentices**. *IEEE Transactions on Learning Technologies*, Vol. 15, No. 5, p. 554-566. Q1 DOI: <https://doi.org/10.1109/TLT.2022.3207226>
3. Leonie Disch, Angela Fessel & Viktoria Pammer-Schindler (2022). **Designing for Knowledge Construction to Facilitate the Uptake of Open Science: Laying out the Design Space**. *ACM Conf. on Human-Computer Interaction (CHI 2022)*. A* Conference DOI: <https://doi.org/10.1145/3491102.3517450>
4. Viktoria Pammer-Schindler & Carolyn Rosé. **Data-Related Ethics Issues in Technologies for Informal Professional Learning**. *International Journal of Artificial Intelligence in Education*, 2021. Q1 DOI: <https://doi.org/10.1007/s40593-021-00259-x>
5. Carla Barreiros, Viktoria Pammer-Schindler & Eduardo Veas. **Planting the Seed of Positive Human-IoT Interaction**. *International Journal of Human-Computer Interaction*, Taylor & Francis, 2019. DOI: <https://doi.org/10.1080/10447318.2019.1642674> Q1

OTHER KEY ACHIEVEMENTS

Awards/Prizes

Best paper nominations at the European Conf. on Technology-Enhanced Learning, and outstanding paper award at the eBled Conference for digital business and society.

Teaching awards: Twice finalist for the TU Graz excellent teaching award for “Human-Centred Design”; currently nominated for “Artificial Intelligence 1”. (→ details see CV p. 4 below)

Grants Acquisition

Around 1,6Mio€ funding from national (Austrian) and European funders; most recently as the WP leader of a European project on understanding and guiding self-reflective usage of adolescents' digital technology usage; and as the scientific manager of a European project on AI-facilitate building of a green & entrepreneurial mindset (L2BGreen). Additional funds secured via the Austrian industry co-funded COMET program in the range of ~12,9Mio€ for research and innovation. (→ details see CV p. 4f below)

Community Engagement and International Boards

Served as the president for the IAALDE (Int. Alliance to Advance Learning in the Digital Era – www.allianclss.com); as an external evaluator and expert in international scientific panels, e.g. for study program accreditation for a “Data Science for Sustainability” master programme AQ Austria; for professorial appointments, research grants, and in the Leibniz society's evaluation committee for the IWM Tübingen; and editorial roles such as a subcommittee chair for the A* conference ACM CHI, as a special issue editor to Q1 journals (*IEEE Trans. Learn. Techn.*; *British J. Ed. Techn.*), and panel moderator for discussing “*Knowledge, Skills and AI*” in this era of generative AI at the ACM Mensch und Computer. (→ details see CV p. 5 below)

Invited Talks

For research and the general public e.g., at Carnegie Mellon University, IWM Tübingen, Korea Advanced Inst. of Technology, Ludwig-Maximilian Univ. Munich, Max Planck Inst. f. Intelligent

Systems Tübingen, Monash University Melbourne, UCL Knowledge Lab London, Univ. of Glasgow, Univ. of Pittsburgh. (→ *details see CV p. 8ff below*)

Leadership and Service at Graz University of Technology

Shaping teaching as the vice dean of studies for “Computational Social Systems” which I helped develop as a member of the initial department-internal taskforce, and as a member and vice chair of curricular committees for the Doctoral School Computer Science and “Speech, Language and AI Technologies”; shaping the department in professorial selection and habilitation committees; contributing to gender & diversity as a taskforce member and member of the TU-Graz wide working group for equal opportunities. (→ *details see CV p. 6 below*)

Teaching

Main current teaching:

- 2018 – Artificial Intelligence 1 (including cross-disciplinary connections, serving as a bridge betw. CS and other disciplines, nominated for a teaching award in 2026)
- 2018 – Human-Centred Design (formerly : Designing Interactive Systems, twice finalist for a teaching award)
- 2022 - Research Seminar at Graz University of Technology & University of Graz – research methods in the “Digital Societies” major (intersection of computer science & sociology) in the interdisciplinary study programme “Computational Social Systems”.
9 PhD students (4 finished), 28 master theses (19 finished), 10 bachelor theses (8 finished)
(→ *details see CV p. 10ff below*)

Appendix – Full lists

Awards & prizes.....	4
Grants acquisition.....	4
International and advisory boards incl. external reviewer for professorial positions.....	5
Leadership and service at Graz University of Technology.....	6
Special issue editor.....	6
Academic Reviewing (grants; journals).....	6
Engagement in conference organization.....	7
Invited talks, panel discussions and research seminars.....	8
Teaching.....	10
PhD students.....	11
Student supervision (master and bachelor).....	12

Awards & prizes

2026	Nomination for the TU Graz biennial excellent teaching award for the VU “Artificial Intelligence 1” (final selection process: autumn 2026).
2023	Outstanding paper award at eBled for “Fruhwith & Pammer-Schindler (2023). Towards Principles for a Data-Driven Business Model Innovation Process – A Design Science Case Study.
2022	Best paper nomination at EC-TEL for “Mirzababei & Pammer-Schindler (2022). Learning to Give a Complete Argument with a Conversational Agent: An Experimental Study in Two Domains of Argumentation.”
2021	Best paper nomination at EC-TEL for “Fessler et al. (2021). The Impact of Explicating Learning Goals on Teaching and Learning in Higher Education: Evaluating a Learning Goal Visualization”.
2018, 2020	Finalist for the TU Graz biennial excellent teaching award for the VU “Designing Interactive Systems”.

Grants acquisition

Acquisition of **~1,6Mio€ funding** for my own group from national (Austrian) and European funders.

2026-2029	EU (<i>Horizon - still confidential – in grant preparation stage</i>), PI at TU Graz , ~300k€. Understanding and guiding adolescents’ self-reflective use of digital technologies in the era of generative AI.
2021-2029	DIH Süd (national - FFG, SFG), TU-Graz internal coordination , ~270k€ for own research group; contribution to acquisition of ~120k€. Digitalisation and AI qualification programme for Small and Medium-Sized enterprises in the region.
2024-2027	L2BGreen (Erasmus+), scientific manager , ~275k€. AI-powered multilingual interactive learning materials and a chatbot to support a green and sustainability-oriented mindset in the European workforce and those entering it.
2023	intramural funding at TU Graz to support FWF grant writing, PI , ~4k€. Computer technologies in creative collaboration.
2021–2023	Rebo at Work (national, AK), PI , ~160k€. Conversational agents for apprentices to support bridging between apprenticeship curricula and work practice and develop reflection competence for future higher employability.
2020–2021	Digital?Sicher! (national, Land Steiermark), consortium member, ~60k€. Co-design based, adaptive and game-based learning technologies for safe behaviour on the Internet for teenagers.

- 2019–2022 DE-TEL (Erasmus+), consortium member, ~50k€. Interdisciplinary curricula and learning materials for doctoral education in educational technology; own focus on provisioning learning materials on design-oriented research and field studies for studying learning technologies as parts of socio-technical systems.
- 2019–2022 TRIPLE (EU H2020), consortium member, ~200k€. Designing novel technologies to support open science in Europe; own focal contributions on designing for knowledge construction.
- 2018–2021 Karriere mit digitaler Lehre (national project, WKO), **scientific leader**, ~70k€. Socio-technical design for digitalisation in apprenticeship training, and reflective conversational agents to support apprentices' learning and development for reflection skills as the basis for lifelong learning.
- 2016–2019 MOVING (EU H2020), **task leader**, ~225k€. Developing interactive approaches to fostering digital literacy.

Research and innovation via the Austrian COMET program

Additional **~12,9Mio € secured** for research and innovation in my role as a research area head at the Know-Center, via the Austrian COMET program. Due to the Know-Center's nature as a non-for profit research and innovation company, the such-funded research is more *collaborative, needing substantial coordination across research groups and with business and industry in comparison to university-based research*.

The here reported funding corresponds to the *funding for which I was responsible as a research area head and as a PhD supervisor*.

- 2026-2029 COMET Module IACAI (national, FFG and industry co-funded basic research). PhD Supervisor, ~370k€ (1 PhD student, topic: "Guided visual analytics between productivity and learning").
- 2022-2025 COMET Module DDIA (national, FFG and industry co-funded basic research). PhD supervisor, ~320k (1 PhD student funded, topic "Designing for knowledge construction in remote and collaborative data analytics environments").
- 2023–2026 Research area head, ~2,2Mio, topics: educational technology, socio-technical design and innovation methods for AI and data analytics.
- 2020–2023 COMET Module DDAI (national, FFG and industry co-funded basic research), PhD supervisor, ~320k (1 PhD student funded – topic "Automatic argument understanding in conversational educational agents").
- 2019–2022 Research area head, ~4,6Mio, topics: educational technology, socio-technical design and innovation methods for AI and data analytics.
- 2015–2018 Research area head, ~5,1Mio, topics: educational technology, computer-supported knowledge work and automation.

International and advisory boards incl. external reviewer for professorial positions

1. **Member of the Evaluation Committee** of AQ Austria for the study program accreditation for Modul University Vienna, "Data Science for Sustainability", 2024.
2. **Reviewer for position of a professorship** (W2) "Bildungstechnologien für die digitale Transformation", Fernuniversität Hagen, Germany, 2022.
3. **Reviewer for position of a professorship** "Professor in Information and Data Science (tenure track associate professor)", University Tallin, Estonia, 2022.
4. **President, secretary and member of the IAALDE Alliance Board** – International Alliance to Advance Learning in the Digital Era (member 2018-2022; secretary 2019; president 2020-2022.) www.alliancelss.com
5. **Member of the EATEL Managing Committee** - European Association of Technology Enhanced Learning (2017 – 2021). www.ea-tel.eu
6. **Advisory Board member** of nationally funded SMARAGD project on human-computer interaction in health (2019 – 2021).

7. **Member of the Evaluation Committee** of the Leibniz Society for IWM Tübingen, Germany, in 2020.

Leadership and service at Graz University of Technology

1. **Deputy head of institute** for the Institute of Human-Centred Computing (since Jan 2025).
2. Member of the TU Graz-wide **working group for equal opportunities** (since Jan 2026).
3. **Vice dean of studies** for the interdisciplinary study program “*Computational Social Systems*” (since 2021)
4. **Curricular committee (vice chair)** for the “*Doctoral School Computer Science*” (since Jan 2026).
5. **Curricular committee (vice chair)** for the master program “*Speech, Language and AI Technologies*”, (since Jan 2024).
6. **Selection boards** (2022/23, 2019/20, 2018/19)
7. **Habilitation committees** (2026, 2020, 2019/20, 2017)
8. Member of an **inter-university task force** on developing the interdisciplinary and inter-university study programme “*Computational Social Systems*” (2020).
9. Member of a strategic working group on intra-university **digital transformation** (2018/2019)
10. Member of department-internal taskforce “**Women in Computer Science**” (2016).

Special issue editor

1. **British J. of Educational Technology** (Q1) – Special issue on “*Empirical Studies on the Impact of Generative AI on Learning*”, 2025.
2. **IEEE Transactions on Learning Technologies** (Q1)– Special issue on “*Designing Technologies to Support Professional and Workplace Learning for Situated Practice*”, Vol. 15, No. 5, 2022. Editorial: <https://ieeexplore.ieee.org/document/9928068>
3. **JUCS** (IF=1.139), Vol 23/9, 2017; guest editor of focus topic together with Alexander Felfernig, Ralf Klamma, Tobias Ley, Dominik Kowald, and Elisabeth Lex. See Editorial by Christian Gütl at: http://www.jucs.org/jucs_23_9/editorial/jucs_23_09_0806_0807_editorial.html
4. **IJTEL** – Special issue on “*Awareness and Reflection in Technology Enhanced Learning*” – 2017, Vol 9, No 2/3.

Academic Reviewing (grants; journals)

Research grants

1. **Research grant reviewer** for the Dutch Research Council, 2022.
2. **Research grant reviewer** for UK Research and Innovation (Future Leaders Fellowship), 2021.

Journal Reviewing

1. **Review of Education** (Q1), 2025
2. **Int J. Human-Computer Interaction** (Q1) 2024, 2025
3. **IEEE TLT** 2014-2016, 2018, 2024 - IEEE Transactions on Learning Technologies (Q1)
4. **Educational Research Review** 2020, 2022, 2024 (Journal IF=7.803)
5. **Frontiers in AI** 2023
6. **Int. J. of Computer-Supported Collaborative Learning** 2023 (Journal IF=4.3)
7. **Educational Technology Research and Development** 2022 (Journal IF=5)
8. **EPJ Data Science**, 2022 (Journal IF=4.333)
9. **International Journal of Human-Computer Studies**, 2021 (Journal IF=3.632)
10. **Behaviour and Information Technology** 2018, 2020-2021 (Journal IF=1.38)
11. **ACM Transactions on Computer-Human Interaction** 2020 (Journal IF=3.88)
12. **Frontiers in Psychology** 2020 (Journal IF=2.39)
13. **Computing** 2019 (Journal IF=1.654)
14. **IJTEL** 2012,2016 - International Journal of Technology-Enhanced Learning.
15. **Journal of Information Science** 2012 (Journal IF= 1.238)

16. **MTAP** 2009-2012 - Multimedia Tools and Applications (Journal IF=1,541), incl. Special Issue on Data Semantics for Multimedia Systems.

Engagement in conference organization

Organisational and editorial roles in conferences

1. **ACM Mensch und Computer** – ACM Conference on Human Factors in Computing with a focus on the German-speaking community
2025 – Panels Chair, led panel “*Knowledge, Skills and AI*”
2. **ACM CHI** – ACM Conference on Human Factors in Computing. Worldwide the most highly rated and archival conference in human-computer interaction
2023, 2024 – Subcommittee Chair
2019, 2020, 2021 - Associate Chair
3. **ECIS** – European Conference on Information Systems. Europe’s top conference in information systems
2019-2022 – Associate Editor
4. **WI** – Wirtschaftsinformatik, the leading German-speaking community conference in information systems
2021 – Associate Editor
5. **ECTEL** European Conference on Technology-Enhanced Learning (www.ec-tel.eu)
2019 – General Chair
2018 – Program Chair
2016 – Poster & Demo Chair
2014 – Workshop Chair

Programme Committee Member (Conferences and Workshops)

1. **AIED** 2024, 2026 – Artificial Intelligence in Education
2. **ECTEL** 2011-2017;2020-2025- European Conference on Technology-Enhanced Learning.
3. **ACM L@Scale** 2022-2025 - Learning at Scale.
4. **APSCE** 2020 – Workshop on Adaptation and Personalization in Computer Science Education, co-located with the ACM Conference on User Modeling, Adaptation and Personalization (ACM UMAP).
5. **CC-TEL** 2018 – Workshop on Co-Design in Technology-Enhanced Learning co-located with the ECTEL European Conference on Technology-Enhanced Learning.
6. **LINKED** 2015 - Workshop on LINKed Education co-located with ISWC.
7. **CSEdu** 2011-2015- International Conference on Computer-Supported Education.
8. **EKA** 2010-2012- European Conference on Knowledge Engineering and Knowledge Management.
9. **ESWC** 2012 – European Semantic Web Conference – Ontologies Track.

Conference Reviewing

1. **ACM CHI** 2015-2021, 2024-2026 - ACM Conference on Human-Computer Interaction (A*-ranked conference), as reviewer of full papers, late-breaking works, alt.chi
2. **ACM Designing Interactive Systems** 2025
3. **ACM Creativity & Cognition** 2025
4. **Educational Advances in AI** 2025
5. **CUI** 2025 – ACM Conference on Conversational User Interfaces
6. **AIED** 2024, 2025 – Artificial Intelligence in Education
7. **L@Scale** 2021, 2023, 2025 – ACM Conference on Learning at Scale
8. **ACM Mensch und Computer** 2024
9. **ACM CSCW** 2016,2018,2024 - ACM Conference on Computer-Supported Cooperative Work and Social Computing
10. **HICSS** 2016, 2021, 2022 – Hawaii International Conference on System Sciences (A-ranked Conference)
11. **Interact** 2021 – IFIT T3 International Conference on Human-Computer Interaction (A-ranked conference)

12. **WI 2021** – Wirtschaftsinformatik (the German-speaking conference for information systems)
13. **IDC 2020** – ACM Interaction Design and Children
14. **ECIS 2016-2018** - European Conference on Information Systems (A-ranked Conference, associate track editor in the years since)
15. **LAK 2012** - Learning Analytics and Knowledge

Workshop Organisation

1. **NUTEL – Nudges in Technology-Enhanced Learning**, workshop co-located with the the European Conference on Technology-Enhanced Learning (ECTEL) 2022. Co-organised together with Prof. Vania Dimitrova, Prof. Tanja Mitrovic and Prof. Björn de Koning.
2. **International Workshop on Intelligence Support for Mentoring Processes in Higher Education** (2020), co-located with the 16th International Conference on Intelligent Tutoring Systems (ITS).
3. Co-Organiser of **Special Interest Group on Learning and Education at ACM CHI**, 2019 See also: <http://interactions.acm.org/blog/view/learning-and-education-in-hci-a-reflection-on-the-sig-at-chi-2019>
4. **ARTEL Workshop Series** (2011-2017) on Awareness and Reflection in Technology-Enhanced Learning co-located with the European Conference on Technology-Enhanced Learning (ECTEL). CEUR WS Proceedings [Vol 1997](#), [Vol 1736](#), [Vol 1465](#), [Vol 1238](#), [Vol 1103](#), [Vol 931](#), [Vol 790](#)
5. **HCI@Industry 4.0** (2016-2017)- Workshop on Human-Computer Interaction Perspectives on Industry 4.0.
6. **ECTEL meets ECSCW** (2013) – Workshop on Collaborative Technologies for Working and Learning, co-located with the European Conference on Computer Supported Cooperative Work (ECSCW) and the European Conference on Technology-Enhanced Learning (ECTEL).

Invited talks, panel discussions and research seminars

1. **Joint international research seminar** with **Prof. Pengcheng An** @Southern Univ. of Science and Technology, Shenzhen, China; and my own research group. Tangible and conversational Human-AI Co-Creation and Collaboration. October 13, 2025. Online.
2. **Research talk:** Which Expertise Can an LLM Have? AI Assertions Project Conference (contact: Prof. Markus Kneer), June 23, Graz, Austria.
3. **Keynote (research):** Data-Related Ethics Issues in Technologies for Professional Learning. Keynote given at the Professional Learning Analytics Workshop @ACM LAK 2025, March 3, 2025, Dublin, Ireland. [Slides](#).
4. **Invited talk (research):** Designing technology that helps us think – At the intersection of HCI and (AI-based) educational technology. Monash University, Melbourne, Oct 23, 2024.
5. **Invited talk (research):** Designing for learning in a digital world. IWM Tübingen, Germany. Nov 14, 2023.
6. **Invited talk (research):** Designing for learning in a digital world. Medieninformatik, LMU, Munich, Germany. Oct 16, 2023.
7. **Invited talk (research):** Designing interactive systems from a socio-technical and learning perspective. UCL Knowledge Lab, London, UK. March 23, 2023.
8. **Invited talk (research):** The place of nudging in conversational reflection guidance. September 13, [NUTEL Workshop](#) at ECTEL 2022 (Toulouse, online)
9. **Invited talk (public engagement):** Do No Evil - Reflektives soziotechnisches Design als Ansatz zur Entwicklung von ethisch vertretbarer AI, 20. Oktober 2021. Vortrag im Rahmen der Webinar Serie "[KI und Ethik in der Medizin](#)". Slides online available at: <https://www.slideshare.net/ViktoriaPammer/do-no-evil-reflektives-soziotechnisches-design-als-ansatz-zur-entwicklung-von-ethisch-vertretbarer-ai>
10. **Keynote (public engagement):** Die digitale Transformation gestalten. Business Brunch @ Uni Graz. September 30, 2021. Slides online available at: <https://www.slideshare.net/ViktoriaPammer/2021-0930-human-touch-in-der-digitalen-transformation>
11. **Invited talk (teaching):** Design Science Research in TEL. Online at the [ECTEL doctoral consortium](#), September 21, 2021. Slides online available at: <https://www.slideshare.net/ViktoriaPammer/design-science-in-tel>.

12. **Panelist (public engagement):** Technology to Improve Learning. An IAALDE public engagement project. April 23, 2021 (online).
13. **Invited talk (research):** Theory-driven dialogue design for reflective conversational agents. Online at the ColMOOC Workshop "[Learn with Agents](#)", March 26, 2021.
14. **Invited talk (research):** Theory-driven dialogue design for reflective conversational agents. Online at Max-Planck Institute Tübingen, Feb 24, 2021.
15. **Invited talk (research):** Theory-driven dialogue design for reflective conversational agents. Online at Freie Universität Berlin, Germany. Feb 4, 2021. Slides online: <https://www.slideshare.net/ViktoriaPammer/2021-0204-theorydriven-dialogue-design-for-reflective-conversational-agents-public>
16. **Joint international research seminar:** hosted by **Prof. Juho Kim** @KAIST (Korea Institute of Technology) and myself @Graz University of Technology. Own focus: Working, learning and technology - Focus: Theory-inspired dialogue design for conversational agents. Jan 20, 2021. Online
17. **Panelist (public engagement):** Digitaler Wandel in der Arbeitswelt. Online event hosted by the University of Graz, Nov 5, 2020.
18. **Invited talk (research):** Design your own Life: Socio-technical design for learning and knowledge work. Online at the Institute of Informatics, University of Amsterdam, Oct. 19, 2020.
19. **Invited talk (public engagement):** Künstliche Intelligenz und unser zukünftiges (Arbeits)Leben. Online event "KI für LehrerInnen", organised by: Die Industrie, Oct. 6, 2020.
20. **Invited talk (public engagement):** Digital Transformation and the Future of Work. Vortrag im Rahmen eines schulinternen Strategieworkshops an der HLW Leoben, November 8, 2019.
21. **Invited talk (research):** Data-Driven Business and Learning, October 30, 2019, NTNU Trondheim, Norway - **visit with Assoc.Prof. Patrick Mikalef.** [Slides](#)
22. **Invited talk (research):** From Data-Driven and Adaptive Technologies for Workplace Learning towards Intelligent Mentoring for Professionals August 16, University of Toronto - remote talk and discussion with lab members of **Ass.Prof Joseph Jay Williams.** [Slides](#)
23. **Invited talk (research):** From Data-Driven and Adaptive Technologies for Workplace Learning towards Intelligent Mentoring for Professionals, August 5, 2019, University of Pittsburgh - **visit with Prof. Peter Brusilovsky.**
24. **Invited talk (research):** Learning from experience via Data-Driven Reflection, Carnegie Mellon University, July 12, 2019 - **visit with Prof. Carolyn P. Rose.** [Slides](#)
25. **Invited talk (research):** Data-Driven and Adaptive Technologies for Workplace Learning, University of Glasgow. May 7, 2019 - **visit with Prof. Allison Littlejohn.** [Slides](#)
26. **Invited talk (public engagement):** Learning 4.0, Digital Future Talks (Industry Round Table), Graz, Austria, April 29, 2019.
27. **Co-Moderation (public engagement):** I was co-moderator of an interactive session on required individual and organisational data analytics competencies at the European Big Data Value Forum, Vienna, Austria, Nov 12, 2018.
28. **Panelist (public engagement):** Panel discussion 'Internet of Things vs. Internet of People' at the Digital Days 2018, Oct .3, Vienna, Austria.
29. **Panelist (research):** Panel of the International Alliance to Advance Learning in the Digital Era (IAALDE - www.alliancelss.com) - A Look into the Future: Contributions from our Societies. July 27, 2018, London, United Kingdom. Representative of the European Association for Technology-Enhanced Learning (EATEL - www.ea-tel.eu). The panel discussion was held as part of the Learning Festival in London, which combined the three renowned conferences ICLS, AIED, and ACM [L@Scale](#).
30. **Invited Keynote (public engagement):** We are designers - Wir gestalten unser Leben mit und ohne Künstliche Intelligenz, April 25, 2018, Graz, Austria - Invited Keynote at Digital Business Trends. [Description](#)
31. **Panelist (public engagement):** At the Artificial Intelligence at AI Inside Summit, February 22, 2018, Vienna, Austria
32. **Invited talk (public engagement):** Challenges for Learning in Industry 4.0 - September, 2017, Tallinn, Estonia - ECTEL Industry Track. [Video](#)

33. **Invited talk (research):** A Conceptual Framework of Ubiquitous Working Institut für Wirtschaftsinformatik und Neue Medien, Siegen, Germany, October 29, 2015, Siegen, Germany - **visit with Prof. Volker Wulf.**
34. **Invited talk (research):** Ubiquitous Technologies for Knowledge Workers Leibniz Institut für Wissensmedien in Tübingen, Germany, July 14, 2015 - **visit with Prof. Ulrike Cress.** [Slides](#)
35. **Invited talk (research):** A Computer Science Perspective on Ubiquitous Working. Ubiquitous Working - Workshop of Leibniz project 'Ubiquitous Working', March 11, 2015, Dortmund, Germany.
36. **Online guest lecture:** Apps zum reflektiven, selbstorganisiertem Lernen. eTeaching.org, November 24, 2014.
37. **Invited talk (research, teaching):** User-Activity Logging for Work-Integrated Learning. Microlearning 2012, July 9, Innsbruck, Austria.
38. **Guest lecture:** Worklife-Logging for Reflective Learning at Work. Talk in the context of the 'Business Information Systems' lecture, University Innsbruck, Austria, January 24, 2012 - **visit with Prof. Ronald Maier.**
39. **Invited talk:** Intelligente Ad-hoc Erstellung von Lerninhalten mit semantischen Technologien. I-Semantics, Graz, Austria, 2009. Invited talk in industry track.
40. **Invited talk (public engagement):** Neue Technologien im Wissensmanagement - Semantische Wikis als Light-Weight Lösung. WM im Projektmanagement - Web 2.0 wo bleibst Du? 35. Community Treffen der Plattform Wissensmanagement, Unterpremstätten, Austria, March 2009.
41. **Invited talk (research):** Intelligente Ad-hoc Erstellung von Lerninhalten mit semantischen Technologien. e-Learning Baltics, Rostock, Germany, 2009.
42. **Invited talk (research):** Semantic and text-processing technologies for use within an integrated worklearn environment. What can Natural Language Processing and Semantic Web technologies do for eLearning? Invited talk in working session co-located with ACL 2007, Prague, Czech Republic, 2007.

Teaching

Current lectures:

The below list is sorted based position in the curriculum, starting with the introductory lectures. Ad personam teaching (e.g., seminar projects, master projects etc.) isn't included.

1. **Artificial Intelligence 1** at Graz University of Technology. (3 ECTS, 2nd year in the bachelor programme, ~300 students).
Content: Rules, logic, graphs, vectors as used in information retrieval, neural networks as illustrations of different *knowledge representation formalisms and associated reasoning mechanisms*; generative AI as a confluence of a long *history of developments in AI*; *introduction of the concept of technology as embedded in socio-technical systems and subsequently necessary technology evaluation at a technical, HCI and socio-technical systems and societal level.*
Ongoing since 2018 (name: Introduction to Knowledge Technologies in 2018-2019; Introduction to Data Science and AI from 2020-2025, **up to 500 students**)
Nominated for the excellent teaching award 2026 at Graz University of Technology (evaluation process ongoing).
2. **Introduction to Scientific Working** at Graz University of Technology (2 ECTS, bachelor level, ~2-5 students /year)
3. **Introduction to Computational Social Systems** at Graz University of Technology and University of Graz (5 ECTS, 1st year in the master programme, ~90 students).
Content: The lecture gives an overview over technical including HCI, business, psychological, sociological, and legal aspects of computational social systems. My teaching module introduces **socio-technical systems and socio-technical design.**
Ongoing since 2021.
4. **Human-Centred Design** at Graz University of Technology, (3 ECTS, master level, 60 students in two groups).
Content: Human-centred design methods, activity theory, contextual design.
Finalist at the excellent teaching award in 2018 and 2020 at Graz University of

Technology.

Ongoing since 2018 (name: Designing Interactive Systems from 2018-2025).

5. **Research Seminar** at Graz University of Technology & University of Graz – research methods in the “Digital Societies” major (intersection of computer science & sociology) in the interdisciplinary study programme “Computational Social Systems”.

Ongoing since 2022

6. **Conversational Systems** at Graz University of Technology

Content: The lecture is co-taught between Roman Kern (Natural Language Processing), Barbara Schuppler (Speech Communication) and myself (Conversational User Interfaces), and gives an introduction across fundamentals and challenges in this interdisciplinary subject. My teaching module introduces interaction design and user studies to assess technology impact in human activity.

Ongoing since 2024

Past lectures:

The below list is sorted chronologically.

1. **Legal Labs** at Graz University of Technology (master level, in the “digital law” major at the intersection of law & computer science in the interdisciplinary study programme “Computational Social Systems”).
2. **Sensing and User Models** at Graz University of Technology, (3ECTS, master level, approx. 10 students).
Content: Activity theory, participatory and user-centered design methods, ubiquitous computing interfaces.
Past: 2015 and 2016.
3. **Semantic Technologies** at Graz University of Technology, together with Wolfgang Kienreich, 5ECTS, master level, approximately 10-20 students.
Content: Entity-relationship modeling, XML and XML Schema, RDF(S), and OWL.
Past: 2012 and 2013.

Teaching in other contexts

1. **Lecture:** Design Science Research in TEL. Online at the ECTEL doctoral consortium, September 21, 2021. Slides online available at: <https://www.slideshare.net/ViktoriaPammer/design-science-in-tel>
2. **Webinar:** Artificial Intelligence in Education. Targeted towards PhD students in technology-enhanced learning, co-taught together with Roland Klemke. Available online at: <https://ea-tel.eu/events/artificial-intelligence-in-education>
3. **Webinar:** Design-based research in TEL. Targeted towards PhD students in technology-enhanced learning, co-taught together with Lorena Sousa and Laia Albó, May 7, 2021. Available online at: <https://ea-tel.eu/events/design-based-research-in-technology-enhanced-learning>
4. **Lecture/Workshop:** Corporate learning – in the context of a continuing education programme on knowledge management at the Danube University Krems (Austria), November 26, 2020.
5. **Lecture:** Evaluation Methods - Field studies in Technology-Enhanced Learning. Joint Summerschool on Technology-Enhanced Learning, June 3, 2019, Bari, Italy.
6. **Lecture:** Lernen in Industrie 4.0 – Neue Lernformen und –möglichkeiten. Professional Training within a lecture series on the future of Work, in relationship to increasing automation and digitalization. Held together with Univ.-Prof. Dr. Stefan Thalmann. March 21-22, 2017, Graz, Austria.
7. **Guest lecture:** Apps zum reflektiven, selbstorganisiertem Lernen. eTeaching.org, November 24, 2014 (online).
8. **Workshops/professional training:** Arbeitsrelevantes Wissen technologiegestützt erwerben und vermitteln. Knowledge Management Academy, June 18, 2013, Vienna, Austria. Professional Training.

PhD students

1. Alina Kopkow (ongoing) – Human-computer interaction issues around Generative AI.

2. Christof Wolf-Brenner (ongoing) – (No?) Ethics in AI-enabled business.
3. Mia Bangerl (ongoing) – Text-generative AI in creative collaboration.
4. Leonie Disch (ongoing – submission planned in 2026) – Designing to support knowledge construction in knowledge-intensive activity.
5. Irmtraud Wolfbauer (ongoing) – Digitalising vocational training; self-identity of apprentices, and reflection guidance to support knowledge transfer from training to work practice.
6. Michael Fruhwirth (finished in 2024) – Designing for Data-Driven Business Model Innovation in the Automotive Industry.
7. Behzad Mirzababaei (finished in 2024) – Enabling conversational agents to understand natural language argumentation.
8. Carla Barreiros (finished in 2021) - Trees and Forests as Natural Metaphor to Represent Complex Sensor Data (co-supervised with Eduardo Veas, and Stefanie Lindstaedt).
9. Angela Fessl (finished in 2016) - Individual Reflection Guidance to Support Reflective Learning at Work (co-supervised with Stefanie Lindstaedt).

Further:

- External PhD reviewer for Manisha Khulbe (Tallinn University, Estonia), 2024.
- External PhD reviewer for Fiona Draxler (LMU Munich, Germany) on AI for learning in everyday contexts; main supervisor: Prof. Albrecht Schmidt at LMU Munich, Germany, October 2023.
- External mentor and PhD reviewer for Vojislav Vujosevic (NTNU Trondheim, Norway) on continued teacher education, main supervisor: Prof. Monica Divitini at NTNU Trondheim, Norway, 2020.

Student supervision (master and bachelor)

Master theses

1. Farzana Akter (ongoing) – Computational conversation analysis for reflective human-AI conversations.
2. Fabian Staber (ongoing) – Interaction design patterns for voice-based and artefact-centered interaction.
3. Una Ibrahimasic (ongoing) – Cognitive effects of voice-based and artefact-centered conversational interaction.
4. Florian Leski (ongoing) – Voice-based interaction for patient-centered health applications.
5. Emilia Isailovic (ongoing) – Computational conversation analysis of human-human-AI collaborations.
6. Ahmed Abdelbaky (ongoing) – Voice-based interaction design for personal AI-assisted financial advice.
7. Bolis Hakim (ongoing) – Voice-based interaction design for multi-disciplinary business data analysis.
8. Abdelrahman Ramadan (ongoing) – Voice-based interaction for self-explanation.
9. Elias Doppelreiter (ongoing) – Socio-technical design for computer-supported translation.
10. Vanessa Komar (2026) – AI Agents with different roles in collaborative open-ended problem solving tasks.
11. Katharina Stefan (2025) – Multi-dimensional differences between face-2-face and video-based collaboration.
12. Tamara David (2025) – GenAI and Creative Collaboration. Basis for Bangerl et al., 2025 - <https://dl.acm.org/doi/10.1145/3706598.3713886>
13. Alina Kopkow (2024) – LLMs in chatbots for argumentation.
14. Katharina Aschbacher (2024) - The Uncertain Promise of HR Analytics: A Comprehensive Analysis of Data Utilised in Predictive Models for Employee Turnover (co-supervision, main supervision: Prof. Stefan Thalmann).
15. Sebastian Überreiter (2024) – Knowledge construction in virtual reality.
16. Nikita Lvov (2023) – A Forest Representation for Shared Knowledge Bases (co-supervision with Carla Barreiros).
17. Ilija Simic (2022) – Supporting critical reception of controversial news with a conversational agent for reflection.

18. Amel Hamidovic (2021) – Identifying fake reflexivity in a conversation with a computational agent in the case of learning reflections by apprentices.
19. Patrick Steyer, 2020 – A conversational agent for apprentices that supports reflecting on learning tasks in the context of their workplace (co-supervision with Irmtraud Wolfbauer).
20. Andreas Wöls, 2020 – Reflection on Task & Time Management: A Conversational Agent Supporting Behavioural Change
21. Armin Köfler, 2017 - Verbesserung des Lagebewusstseins und der Maßnahmenenergreifung bei der Sicherung von Großveranstaltungen.
22. Sabine Lukas, 2017 - Prozessoptimierung auf Basis eines Multi-Level Management Systems für Waldbrandszenarien.
23. Dominik Widnig, 2017 - Geo Heroes - a location based mixed reality game ([Youtube Video of the game](#))
24. Andreas Müller, 2017 - Learning in online communities in the case of StarCraft
25. Christofer Öjeling, 2016 – Physical Sokoban. An augmented reality game. The paper Luzhnica et al. 2016 was a partial result of this thesis. The thesis was supervised by myself and Eduardo Veas, also at TUGraz, in the context of an internship at the Know-Center, while the thesis was formally supervised at Chalmers University of Technology and University of Gothenburg, examined by Graham Kemo and supervised by K.V.S. Prasad.
26. Markus Perndorfer, 2015 - Detecting social interactions via mobile sensing. Download the (anonymised) mobile phone sensing data that Markus collected as part of his master thesis [[dataset](#)].
27. Martin Daum, 2015 - Locating lost items using pedestrian dead reckoning on smartphones.
28. Alfred Wertner, 2014 – Stress Prediction for Knowledge Workers based on PC Activity and Noise Level

Further:

- [External reviewer](#) to Bernd Sahre (FU Berlin, Germany), main supervisor: Prof. Claudia Müller-Birn, FU Berlin, Germany.

Bachelor theses

1. Amin Gudic (ongoing) – Proactive AI Colleagues in Collaborative Settings.
2. Sebastian Luhn (ongoing) – AnythingLLM for fast chatbot prototyping.
3. Stasa Mandic, 2022 – Visualising hierarchical learning goals.
4. Philipp Kaimbacher, 2022 – Designing for remote awareness between emergency forces and a local hospital.
5. Max Gerlach, 2021 – Designing a forest-based representation of progress towards life goals.
6. Josef Suschnigg, 2016 – Android Applikation für die mobile Unterstützung zur Reflexion der Übungspraxis bei Musikern. Co-supervision with Univ.-Prof. Silke Kruse-Weber, from University of Music and Performing Arts Graz.
7. Mathias Moser, 2016 – Optimized Work Time Tracking
8. Stephan Keller, 2014 - Praktische Anwendung von BCI unter Android - Tic Tac Toe. Co-supervision with Assoc.-Prof. Dr. Reinhold Scherer, also at TUGraz. Appears in multiple publications:
9. Jörg Simon, 2014 – Mobile Mind Mapping Applikationen – Anforderungen und Herausforderungen.
10. Martin Prinz, 2014 – Mobile Sensordata to Support Stroke Rehabilitation