

Priv.-Doz. Dr. Dominik Kowald

Curriculum Vitae

Scholar: <https://scholar.google.at/citations?user=qQ-L8rUAAAAJ>

ORCID: <https://orcid.org/0000-0003-3230-6234>

Website: <https://dominikkowald.info>

Education

- 2017–2024 **Priv.-Doz. (Habilitation), Applied Computer Science, *TU Graz, Institute of Interactive Systems and Data Science (ISDS)***, Graz, Austria.
Thesis: Transparency, Privacy, and Fairness in Recommender Systems
- 2012–2017 **Dr.techn. (Ph.D.), Computer Science, *TU Graz, Institute of Interactive Systems and Data Science (ISDS)***, Graz, Austria, *with distinction*.
Thesis: Modeling Activation Processes in Human Memory to Improve Tag Recommendations
Supervisors: Prof. Stefanie Lindstaedt (TU Graz) & Prof. Tobias Ley (Tallinn University), advisor: Assoc.Prof. Elisabeth Lex (TU Graz)
- 2009–2012 **Dipl.Ing. (MSc.), Computer Science, *TU Graz, Institute of Interactive Systems and Data Science (ISDS)***, Graz, Austria, *with distinction*.
Thesis: Combining Computer-Supported, Collaborative Learning with E-Assessment: Enhancing a Wiki System with Flexible Assessment Methods
Supervisors: Assoc.Prof. Christian Gütl (TU Graz), advisor: Assoc.Prof. Mohammad Al-Smadi (TU Graz)
- 2006–2009 **BSc., Computer Science, *TU Graz, Institute of Interactive Systems and Data Science (ISDS)***, Graz, Austria.
Thesis: Peer Assessment in Computer Science and Modern Technologies to Build a Flexible E-Learning System around It
Supervisor: Assoc.Prof. Christian Gütl (TU Graz), co-author: Joachim Maderer
- 2001–2006 **Matura, Manufacturing Computer Science, *College of Industrial Engineering (BULME), Business Informatics***, Graz, Austria, *with distinction*.
Matura project: Implementation of a medical practice management system with online user administration

Professional Positions Held

- since 2024 **Lecturer, *University of Graz, Business Analytics and Data Science Center (BANDAS)***, Graz, Austria.
Teaching focus: relational databases, query languages, business analytics and digitalization
- since 2022 **Lecturer and Senior Researcher, *TU Graz, Institute of Interactive Systems and Data Science (ISDS)***, Graz, Austria.
Venia docendi: scientific subject Applied Computer Science (since June 2024)
Teaching focus: relational databases, data management and data science, NoSQL databases, scientific writing with focus on recommender systems, trustworthy AI, data science, and machine learning
- since 2021 **Research Area Manager, *Know Center Research GmbH, FAIR-AI***, Graz, Austria.
Research focus: trustworthy AI, reproducibility in machine learning, differential privacy in recommender systems, long-term dynamics of algorithmic fairness, popularity bias in recommender systems and information retrieval, responsible machine learning and data science
Research visit: XAI group of Prof. Nava Tintarev, Maastricht University, The Netherlands (November 2021); funded by the Provincial Government of Styria

- 2017–2021 **Deputy Research Area Manager**, [Know Center Research GmbH, FAIR-AI \(formerly called Social Computing\)](#), Graz, Austria.
Research focus: psychology-informed recommender systems, social data science, multi-domain recommender systems, data platforms, microservice-based software architectures, machine learning
- 2012–2017 **Ph.D. Candidate and Researcher**, [Know Center Research GmbH, FAIR-AI \(formerly called Social Computing\)](#) and [TU Graz, Institute of Interactive Systems and Data Science \(ISDS\)](#), Graz, Austria.
Research focus: cognitive-inspired recommender systems, social tagging and data science
- 2010–2012 **Research Project Assistant**, [TU Graz, Institute of Interactive Systems and Data Science \(ISDS\)](#), Graz, Austria.
Research focus: collaborative Web systems, e-assessment, learning analytics, Web technologies

University Courses Taught

- since 2024 **Data Management**, [TU Graz](#), 4 ECTS, Bachelor Software Engineering & Management, Computer Science, Information & Computer Engineering.
Role: [lecturer](#) (~500 students)
- since 2024 **Foundations of Digitalization**, [University of Graz](#), 4 ECTS, Bachelor Business Administration, Economics, Sociology.
Role: [lecturer responsible for course content on relational databases](#) (~500 students)
- since 2024 **Privatissimum**, [TU Graz](#), Doctoral school, Trustworthy AI and recommender systems.
Role: [mentoring Ph.D. students](#) (~1 to 2 students)
- 2024 **Case Studies Business Analytics**, [University of Graz](#), Guest lecture, AI reproducibility.
Role: [guest lecturer on reproducibility of AI-driven research](#) (~50 students)
- since 2023 **Databases**, [TU Graz](#), 3 ECTS, Bachelor Information & Computer Engineering, Master Computational Social Systems, Electrical & Audio Engineering.
Role: [lecturer](#) (~100 students)
- since 2023 **Introduction to Scientific Writing**, [TU Graz](#), 2 ECTS, Bachelor Information & Computer Engineering, Computer Science, Software Engineering & Management.
Role: [offering seminar topics on trustworthy AI and recommender systems](#) (~1 to 10 students)
- 2022 **Journalism and Public Relations**, [FH Joanneum](#), Guest lecture, News recommender systems.
Role: [guest lecturer on news recommender systems for journalists](#) (~50 students)
- 2016 **Science 2.0**, [TU Graz](#), 3 ECTS, Master Software Engineering & Management, Computer science.
Role: [course assistant responsible for the exercises](#) (~50 students)
- 2014 **Recommender Systems**, [PUC Chile](#), Practical assignment, Content-based recommender systems.
Role: [guest course assistant responsible for one exercise](#) (~50 students)
- 2014 **Web Science & Web Technology**, [TU Graz](#), 3 ECTS, Bachelor Software Engineering & Management, Master Information & Computer Engineering.
Role: [course assistant responsible for the exercises](#) (~200 students)
- 2011–2012 **Information Search & Retrieval**, [TU Graz](#), 5 ECTS, Master Software Engineering & Management, Computer Science, Information & Computer Engineering.
Role: [course assistant responsible for the exercises](#) (~100 students)
- 2009 **Data Structures & Algorithms**, [TU Graz](#), 1.5 ECTS, Bachelor Biomedical Engineering, Technical Mathematics, Software Engineering & Management, Computer Science, Information & Computer Engineering.
Role: [student assistant \(tutor\) responsible for one exercise group](#) (~30 students)

Student Supervision, Mentoring, & Examination Committee Member

- since 2025 **Master's thesis and internship**, [Know Center Research GmbH](#) and [University of Vienna](#), Anja Rejc: Cognitive Biases and Trustworthy AI.
- since 2025 **Master's thesis**, [TU Graz](#), Juergen Stumpf: *Regulation and Governance of AutoML Tools in Industrial Settings*, Co-supervision with Prof. Stefan Thalmann, [University of Graz](#).
- 2025 **Master's thesis**, [TU Graz](#), Valentin Forster: *Detecting Price Anomalies Indicative of Antitrust Violations with Machine Learning*, Co-supervision with Dr. Juergen Fleiss, [University of Graz](#).
- 2025 **Examination committee chairperson**, [TU Graz](#), Thomas Zenkl: *The Trouble with Algorithms: Conceptualizing Algorithmic Breaching Experiments*, Master's exam with Prof. Juliane Jarke, [University of Graz](#), and Assoc.Prof. Bernhard Wieser, [TU Graz](#).
- since 2024 **Ph.D. thesis**, [TU Graz](#), Florian Atzenhofer-Baumgartner: *Recommender Systems in Digital Humanities*, Co-supervision with Prof. Georg Vogeler, [University of Graz](#).
- since 2024 **Master's thesis**, [TU Graz](#), Andrea Forster: *Popularity Bias in Point-of-interest Recommender Systems*, Co-supervision with Prof. Stefan Thalmann, [University of Graz](#).
- 2024 **Examination committee chairperson**, [TU Graz](#), Sara Skardelly: *Environmental (In)justice: Vienna as Best Practice?*, Master's exam with Prof. Juliane Jarke, [University of Graz](#), and Assoc.Prof. Bernhard Wieser, [TU Graz](#).
- 2024 **Internship**, [Know Center Research GmbH](#), Adrian Marangoni: Fairness in AI for Mobility.
- 2024 **Master's thesis and internship**, [TU Graz](#), Ioana Serban: Bias in Public Datasets.
- 2024 **Bachelor thesis**, [TU Graz](#), Gregor Autischer: *Practical Aspects of AI Certification*.
- 2023 **Bachelor thesis**, [TU Graz](#), Harald Semmelrock: *Reproducibility in Machine Learning-based Research*.
- 2023 **Bachelor thesis**, [TU Graz](#), Michael Pöchlinger: *Metrics to Measure Dataset Quality and Bias in Data*.
- 2023 **Internship**, [Know Center Research GmbH](#), Gökay Yildirim: Popularity Bias in Recommender Systems.
- 2022 **Bachelor thesis and Master's project**, [TU Graz](#), Gregor Mayr: *Calibration in Recommender Systems*, Co-supervision with Assoc.Prof. Elisabeth Lex, [TU Graz](#).
- since 2020 **Ph.D. thesis**, [TU Graz](#), Peter Müllner: *Privacy in Recommender Systems*, Co-supervision with Assoc.Prof. Elisabeth Lex, [TU Graz](#).
- since 2020 **Ph.D. thesis**, [TU Graz](#), Tomislav Duricic: *Sparsity and Interpretability of Graph-based Recommender Systems*, Co-supervision with Assoc.Prof. Elisabeth Lex, [TU Graz](#).
- 2020 **Master's thesis**, [TU Graz](#), Mario Wagner: *Diversity-Aware Recommendation of Tweets*, Co-supervision with Assoc.Prof. Elisabeth Lex, [TU Graz](#).
- 2019 **Master's thesis**, [TU Graz](#), Peter Müllner: *Studying Non-Mainstream Listening Behavior For Music Recommendations*, Co-supervision with Assoc.Prof. Elisabeth Lex, [TU Graz](#).
- 2016 **Bachelor thesis**, [TU Graz](#), Andreas Punz: *Detection and Analysis of Communities on Twitter*, Co-supervision with Assoc.Prof. Elisabeth Lex, [TU Graz](#).

Scientific Event Organization & Conference Session Chairing

- 2025 **CLARIAH Hackathon**, [Efficient Similarity: A Hackathon for Advanced Search in Cultural Heritage 3-days hackathon at Department of Digital Humanities at University of Graz](#), Graz, Austria, Role: co-organizer.
- 2025 **UMAP Workshop**, [Hybrid AI for Human-Centric Personalization Workshop co-located with UMAP'25](#), New York City, United States, Role: co-organizer.

- 2025 **ReproAI Workshop**, *Reproducibility and AI Workshop co-located with “Yes, we are open” Weizenbaum Institute Conference*, Berlin, Germany, Role: co-organizer.
- 2025 **STS Workshop**, *Fairness and Artificial Intelligence workshop at the 23rd Conference on Critical Issues in Science, Technology and Society Studies*, Graz, Austria, Role: co-organizer.
- 2024 **CRBAM Workshop**, *Fair recommendations for cyclists workshop at 8th Cycling Research Board Annual Meeting (CRBAM)*, Zurich, Switzerland, Role: co-organizer.
- 2022 **DIH Süd Workshop**, *Digital Innovation Hub (DIH) Süd workshop on recommender systems and trustworthy AI*, Graz, Austria, Role: co-organizer.
- 2020 **BigData Summer Academy**, *Know Center Research GmbH summer academy on recommender systems*, Graz, Austria, Role: co-organizer.
- 2018 **ACM CIKM**, *Recommendation track of ACM CIKM'18*, Turin, Italy, Role: session chair.
- 2017 **RSBDA Workshop**, *Second workshop on recommender systems and big data analytics (RSBDA) at i-KNOW'17*, Graz, Austria, Role: co-organizer.
- 2016 **RSBDA Workshop**, *First workshop on recommender systems and big data analytics (RSBDA) at i-KNOW'16*, Graz, Austria, Role: co-organizer.
- 2015 **i-KNOW**, *Social Computing track at i-KNOW'15*, Graz, Austria, Role: session chair.
- 2013 **i-KNOW**, *Science 2.0 track at i-KNOW'13*, Graz, Austria, Role: session chair.

Awards & Honours

- 2024 **Outstanding Reviewer Award**, *ACM UMAP'24*, Cagliari, Italy.
- 2022 **Mind-the-gap Award**, *TU Graz Gender & Diversity department*, Graz, Austria, worth 450€.
- 2018 **Ph.D. Thesis Award**, *Chamber of Labor Styria*, Graz, Austria, worth 650€.
- 2015 **Best Demo Honourable Mention**, *Demo track at i-KNOW'15*, Graz, Austria.
- 2014 **Best Poster Award**, *Poster track at Hypertext'14*, Santiago, Chile.

Project Grants & Research Funding

- 2025–2027 **HorizonEurope**, *Linked User-driven Multidisciplinary Exploration Network (LUMEN)*, 415k€ for Know Center (83k€ for FAIR-AI), Role: key researcher.
- 2025–2026 **FFG FemTech**, *Internship Grant*, 8.5k€ for FAIR-AI at Know Center, Role: (co)-supervisor.
- 2024–2025 **OpenWebSearch Third-Party Call**, *Trustworthy Access to Knowledge from the Indexed Web (TILDE)*, 100k€ for Know Center (33k€ for FAIR-AI), Role: key researcher.
- 2024–2025 **FFG AI4Green**, *Strategic AI Roadmap for Mobility (SAIROM)*, 50k€ for Know Center (25k€ for FAIR-AI), Role: key researcher.
- 2024–2025 **Styrian AI Future Fund**, *FairRecSys*, 74k€ for TU Graz (37k€ for FAIR-AI), Role: co-PI.
- 2023–2026 **FFG COMET Research Center**, *Know Center - Research Center for Trustworthy AI*, 20.4M€ for Know Center (3.4M€ for FAIR-AI), Role: research area manager for FAIR-AI.
- 2022–2026 **FFG COMET Module**, *Data-Driven Immersive Analytics (DDIA)*, 3.7M€ for Know Center (350k€ for FAIR-AI), Role: key researcher for subproject on recommendations and LLMs.
- 2022–2025 **FFG FemTech**, *Radreisen4All*, 150k€ for FAIR-AI at Know Center, Role: key researcher.
- 2022–2023 **FFG FemTech**, *Internship Grant*, 8.5k€ for FAIR-AI at Know Center, Role: (co)-supervisor.
- 2020–2023 **FFG COMET Module**, *Data-Driven Artificial Intelligence (DDAI)*, 3.7M€ for Know Center (700k for FAIR-AI), Role: key researcher for subproject on explainable and private AI for users.
- 2020–2023 **Erasmus+**, *Cogsteps*, 130k€ for FAIR-AI at Know Center and TU Graz, Role: key researcher.

- 2020–2022 **Horizon2020**, [Trusted Secure Data Sharing Space \(TRUSTS\)](#), 730k€ for Know Center (138k€ for Social Computing), *Role*: task lead.
- 2020–2022 **Horizon2020**, [TRIPLE](#), 377k€ for Know Center (120k€ for Social Computing), *Role*: co-task lead.
- 2020–2022 **Horizon2020**, [AI4EU](#), 147k€ for Know Center (73.5k€ for Social Computing), *Role*: co-task lead.
- 2019–2022 **FFG COMET Research Center**, [Know Center - Research Center for Big Data Analytics](#), 20.4M€ for Know Center (3.4M€ for Social Computing), *Role*: deputy research area manager for Social Computing.
- 2019–2021 **FFG BASIS**, [Automated Marketing and Loyalty System for Retailers and Stores \(Joloo\)](#), 120k€ for Social Computing at Know Center, *Role*: researcher for recommender systems.
- 2018–2020 **FFG BASIS**, [Studo App Sales Offensive](#), 120k€ for Social Computing at Know Center, *Role*: researcher for recommender systems.
- 2018–2020 **Styrian Health Fund**, [Health-Literacy und Diversity \(HeLi-D\)](#), 75k€ for Know Center (37.5k€ for Social Computing), *Role*: work package lead.
- 2018–2020 **OpenAIRE Tender Call**, [OpenAIRE Matchmaker](#), 75k€ for Know Center, *Role*: researcher.
- 2015–2018 **FFG Lighthouse**, [Data Market Austria \(DMA\)](#), 286k€ for Know Center (170k€ for Social Computing), *Role*: researcher for recommender systems.

Selected Media Reactions & Scientific Dissemination to the Public

- 2025 **HTS Highlights**, [Trustworthy AI for the Medicine of the Future](#), News Article on trustworthy AI in healthcare in the highlights report of the Humantechnology Styria hub, *Language*: English.
- 2024 **Trend**, [Der AI Act - Chance für Europa](#), News Article on legal aspects of trustworthy AI, *Language*: German.
- 2024 **MediaFutures**, [Transparency, privacy and fairness in recommender systems](#), News article on trustworthiness aspects of recommender systems, *Language*: English.
- 2023 **DerStandard**, [Wie Recruiting mit KI in Zukunft auch ohne Diskriminierung möglich ist](#), News article on fair AI in the labor market, *Language*: German.
- 2022 **APA Science**, [Digitale Stereotype](#), News article on fairness in AI, *Language*: German.
- 2022 **APA Science**, [Wie digitale Stereotype aus der Welt geschafft werden sollen](#), News article on popularity bias in recommender systems, *Language*: German.
- 2022 **TU Graz**, [Research and Teaching for Equal Opportunities](#), News article about the winners of the TU Graz Mind-the-gap gender and diversity award, *Language*: English.
- 2021 **BiomedCentral**, [Algorithm-Generated Music Recommendations: Low Accuracy for Fans of Beyond-Mainstream Music](#), News article on beyond-mainstream users in music recommender systems, *Language*: English.
- 2021 **BackstagePro**, [Studie zeigt: Metal- und Hip-Hop-Fans haben bei Empfehlungs-Algorithmen das Nachsehen](#), News article on beyond-mainstream music in recommender systems, *Language*: German.

Additional Technical, Leadership, & Gender Mainstreaming Qualifications

- 2023 **Leadership**, [Wolfgang Eder HR development](#), [Future team lead certificate](#), Know Center Research GmbH team lead programme on gender- and diversity-sensitive leading strategies.
- 2022–2025 **FFG Femtech**, [Key researcher for FFG Femtech project including a Femtech internship](#), gender- and diversity-sensitive recommender systems in Radreisen4All project.

FAIR-AI, Know Center Research GmbH & TU Graz – Sandgasse 34 – Graz, Austria

☎ +43 664 6191718 • ✉ dkowald@know-center.at

- 2022 **Gender & Diversity Award**, [TU Graz Gender, Diversity and Equal Opportunity](#), Awarded for my research on fairness, diversity, and gender and popularity bias in recommender systems.
- 2023 **Teaching**, [TU Graz Teaching Academy](#), [Advanced teaching certificate](#), Didactics and communication skills for gender- and diversity-sensitive teaching and mentoring techniques.
- 2023 **Summer school**, [Recommender systems summer school](#), Participant, Copenhagen, Denmark.
- 2022 **Teaching**, [TU Graz Teaching Academy](#), [Basic teaching certificate](#), Didactics and teaching skills on university lecturing and supervising students.
- 2019 **Summer school**, [Computational Social Science summer school on methods for analyzing multimedia data](#), Participant, Berlin, Germany.

Membership and Activities in Professional Associations

- since 2024 **Austrian Standards**, [Committee for AI standardization](#), Role: committee member.
- since 2023 **Big Data Value Association Task Force**, [Ethical and Trustworthy Artificial and Machine Intelligence \(ETAMI\) task force of the Big Data Value Association \(BDVA\)](#), Role: member.
- since 2023 **Know Center Research GmbH**, [Works Council of Know Center Research GmbH](#), Role: substitute member.
- since 2021 **Frontiers in Big Data**, [Editorial board of Recommender Systems Section](#), Role: review editor and research topic editor.
- since 2014 **ACM**, [Association for Computing Machinery \(ACM\)](#), Role: member (since 2017: professional member).

Research Talks at International Conferences & Events

- 2025 **HabilTalk**, *Invited talk on transparency, privacy, and fairness in recommender systems as part of the HabilTalk series of TU Graz*, Graz, Austria.
- 2024 **RecSys**, *Contributing talk on popularity bias simulation studies at RecSys*, Bari, Italy.
- 2024 **OEGGF**, *Contributing talk on fair AI in the labor market at the 10. Tagung der Oesterreichischen Gesellschaft für Geschlechterforschung (OEGGF)*, Graz, Austria.
- 2024 **AI-Know**, *Contributing talk on evaluation and certification of trustworthy AI at AI-Know*, Graz, Austria.
- 2024 **MediaFutures**, *Invited talk on trustworthy recommender systems and research/industry collaborations at MediaFutures SFI*, Bergen, Norway.
- 2024 **Wissenschaftsforum**, *Invited speaker and panelist on fair AI in the labor market at the Wissenschaftsforum*, Cologne, Germany.
- 2023 **ECIR**, *Contributing talk on recommendations-as-a-service at ECIR*, Dublin, Ireland.
- 2023 **BIAS**, *Contributing talk on recommendation calibration at BIAS@ECIR*, Dublin, Ireland.
- 2022 **EBDVA**, *Invited panelist and speaker on trustworthy AI and EU AI Act as part of the European Big Data Value Forum*, Prague, Czech Republic.
- 2022 **ECIR**, *Contributing talk on popularity bias mitigation in news recommender systems at ECIR*, Stavanger, Norway.
- 2022 **BIAS**, *Contributing talk on fairness in multimedia recommender systems at BIAS@ECIR*, Stavanger, Norway.
- 2021 **DataWeek**, *Invited panelist and speaker on breaking silos in data innovation in Europe as part of BDVA Data Week*, online due to COVID-19.
- 2021 **Science4Future**, *Contributing talk on fairness in AI at Science4Future@TUGraz*, Graz, Austria.

- 2020 **ECIR**, Contributing talk on music recommendations at [ECIR](#), online due to COVID-19.
- 2019 **REVEAL**, Contributing talk on recommender systems in data markets at [REVEAL@RecSys](#), Copenhagen, Denmark.
- 2019 **EUROCSS**, Contributing talk on network polarization at [EUROCSS](#), Zurich, Switzerland.
- 2018 **CIKM**, Contributing talk on social recommendations at [CIKM](#), Turin, Italy.
- 2018 **WebConf**, Contributing talk on semantic context in tag recommendations at [WebConf](#), Lyon, France.
- 2018 **EUROCSS**, Contributing talk on confirmation bias in hashtag recommendations [EUROCSS](#), Cologne, Germany.
- 2017 **UMAP**, Contributing talk on recommendation frameworks at [UMAP](#), Bratislava, Slovakia.
- 2017 **WebConf**, Contributing talk on hashtag recommendations at the [WebConf](#), Perth, Austria.
- 2017 **UMAP**, Contributing talk on the TagRec tag recommendation evaluation framework [UMAP](#), Bratislava, Slovakia.
- 2017 **EUROCSS**, Contributing talk on imbalances in social tagging systems and recommendations [EUROCSS](#), London, England.
- 2016 **Hypertext**, Contributing talk on cognitive models in tagging at [Hypertext](#), Halifax, Canada.
- 2015 **RecSys**, Contributing talk on recommendation evaluation at [RecSys](#), Vienna, Austria.
- 2015 **WWW**, Contributing talk on recommendations in social tagging systems at [WWW](#), Florence, Italy.
- 2015 **CSSWS**, Contributing talk on activation processes in human memory for tag recommendations at [CSSWS](#), Cologne, Germany.
- 2015 **i-KNOW**, Contributing talk on tourism recommender systems at [i-KNOW](#), Graz, Austria.
- 2014 **WWW**, Contributing talk on cognitive-inspired recommendation at [WWW](#), Seoul, Korea.
- 2013 **i-Semantics**, Contributing talk on a Web framework for social semantic services at [i-Semantics](#), Graz, Austria.

Selected Research Community Services, Open Software, & Datasets

- 2022-2023 **Journal Special Issue Editor**, [Frontiers in Big Data - Reviews in Recommender Systems](#), (co-) editor of 10 review articles in the field of recommender systems.
- since 2021 **Journal Review Editor**, [Frontiers in Big Data - Recommender Systems Section](#).
- since 2020 **Senior Program Committee Member**, [ECAI](#), [RecSys](#) (reproducibility track), [ECIR](#) (reproducibility track), [ECTEL](#).
- since 2020 **Open Datasets**, [LFMUserGroups - User Groups to Study Popularity Bias in Music Recommendation](#), [FairRecSys - Datasets for Studying Popularity Bias in Recommender Systems](#), [LFMBeyMS - Beyond-Mainstream Users in the Last.fm Dataset](#).
- since 2017 **Reviewing for Journals and Books**, [TORS](#), [Journal of HCI](#), [TIST](#), [Frontiers in Psychology](#), [Applied Soft Computing](#), [EPJ Data Science](#), [HUMANIZE](#), [TWEB](#), [TCSS](#), [PlosOne](#), [JSS](#), [TKDE](#), [IR Journal](#), [SNAM](#), [AJSE](#), [TLT](#), [Computers & Education](#), [Systems & Software](#).
- since 2015 **Reviewing for Workshops and Symposia**, [BIAS](#), [IronGraphs](#), [MURS](#), [PysIAS](#), [HAAPIE](#), [MORS](#), [INTRS](#), [Perspectives](#), [RDSM](#), [SOAPS](#), [AFEL](#), [SNAMS](#), [MSM](#).
- since 2014 **Reviewing for Conferences**, [SIGIR](#), [ECAI](#), [ECIR](#), [ICWE](#), [CIKM](#), [WWW](#), [IUI](#), [HT](#), [EuroCSS](#), [RecSys](#), [WebSci](#), [OpenSym](#), [UMAP](#), [ECTEL](#).
- since 2013 **Open Software Projects**, [TagRec - Tag Recommendation Evaluation Framework](#), [FairRecSys - Scripts for Studying Bias in Recommender Systems](#), [LearningLayers - Technical Infrastructure](#).

International Research Projects Participated

- 2025–2027 **HorizonEurope**, *Linked User-driven Multidisciplinary Exploration Network (LUMEN)*, Led by [CNRS](#), Role: key researcher.
- 2024–2026 **HorizonEurope**, *Enhancing Trust, Integrity and Efficiency in Research through next-level Reproducibility (TIER-2)*, Led by [Know Center Research GmbH](#), Role: key researcher.
- 2024–2025 **FFG BASIS**, *Prognosen von Ressourcenbedarfen (Pro'K'ress)*, Led by [DaphOS](#), Role: key researcher for privacy-preserving machine learning and recommender systems.
- 2024–2025 **OpenWebSearch Third-Party Call**, *Trustworthy Access to Knowledge from the Indexed Web (TILDE)*, Led by [University of Passau](#), Role: key researcher.
- 2024–2025 **FFG AI4Green**, *Strategic AI Roadmap for Mobility (SAIROM)*, Led by [University of Graz](#), Role: key researcher.
- 2024–2025 **Styrian AI Future Fund**, *FairRecSys*, Led by [TU Graz](#), Role: co-PI.
- 2023–2026 **FFG COMET Research Center**, *Know Center - Research Center for Trustworthy AI*, Led by [Know Center Research GmbH](#), COMET-funded research projects conducted with e.g., [SGS](#), Role: research area manager for FAIR-AI.
- 2022–2026 **FFG COMET Module**, *Data-Driven Immersive Analytics (DDIA)*, Led by [Know Center Research GmbH](#), research conducted with partners, e.g., [University of Stuttgart](#), Role: key researcher for subproject on recommendations and LLMs.
- 2022–2025 **FFG FemTech**, *Radreisen4All*, Led by [Cyclebee](#), Role: key researcher.
- 2020–2023 **FFG COMET Module**, *Data-Driven Artificial Intelligence (DDAI)*, Led by [Know Center Research GmbH](#), research conducted with partners, e.g., [TU Delft](#), Role: key researcher for subproject on explainable and private AI for users.
- 2020–2023 **Erasmus+**, *Cogsteps*, Led by [University of Zagreb](#), Role: key researcher.
- 2020–2022 **Horizon2020**, *Trusted Secure Data Sharing Space (TRUSTS)*, Led by [Leibniz University Hannover](#), Role: task lead.
- 2020–2022 **Horizon2020**, *TRIPLE*, Led by [CNRS](#), Role: co-task lead.
- 2020–2022 **Horizon2020**, *AI4EU*, Led by [Thales SIX GTS France SAS](#), Role: co-task lead.
- 2019–2022 **FFG COMET Research Center**, *Know Center - Research Center for Big Data Analytics*, Led by [Know Center Research GmbH](#), COMET-funded research projects conducted with e.g., [DiePresse](#), Role: deputy research area manager for Social Computing.
- 2019–2021 **FFG BASIS**, *Automated Marketing and Loyalty System for Retailers and Stores (Jolioo)*, Led by [Jolioo GmbH](#), Role: researcher for recommender systems.
- 2018–2020 **FFG BASIS**, *Studo App Sales Offensive*, Led by [Moshbit GmbH](#), Role: researcher.
- 2018–2020 **Styrian Health Fund**, *Health-Literacy und Diversity (HeLi-D)*, Led by [University of Graz](#), Role: work package lead.
- 2018–2020 **OpenAIRE Tender Call**, *OpenAIRE Matchmaker*, Led by [OpenAire](#), Role: researcher.
- 2015–2018 **Horizon2020**, *Analytics for Everyday Learning (AFEL)*, Led by [University of Galway](#), Role: co-task lead.
- 2015–2018 **Horizon2020**, *MoreGrasp*, Led by [TU Graz](#), Role: researcher for recommender systems.
- 2015–2018 **FFG Lighthouse**, *Data Market Austria (DMA)*, Led by [Research Studios Austria](#), Role: researcher for recommender systems.
- 2012–2016 **FP7**, *Learning Layers*, Led by [Tallinn University](#), Role: Ph.D. candidate.
- 2012–2014 **FP7**, *Organic Lingua*, Led by [University of Alcalá](#), Role: researcher.
- 2010–2012 **FP7**, *ALICE*, Led by [University of Milano-Bicocca](#), Role: researcher.

Priv.-Doz. Dr. Dominik Kowald

List of Publications (* indicates equal contributions)

Scholar: <https://scholar.google.at/citations?user=qQ-L8rUAAAAJ>

ORCID: <https://orcid.org/0000-0003-3230-6234>

Website: <https://dominikkowald.info>

Monographs

- [1] Dominik Kowald. Transparency, privacy, and fairness in recommender systems. *arXiv preprint arXiv:2406.11323 (habilitation at Graz University of Technology)*, 2024. URL <https://doi.org/10.48550/arXiv.2406.11323>.
- [2] Dominik Kowald. *Modeling activation processes in human memory for tag recommendations*. Suedwestdeutscher Verlag fuer Hochschulschriften, 2017. URL <https://www.morebooks.shop/shop-ui/shop/product/978-620-2-32072-6>.
- [3] Dominik Kowald. Modeling activation processes in human memory to improve tag recommendations. *arXiv preprint arXiv:1803.03176 (Ph.D. thesis at Graz University of Technology)*, 2017. URL <https://doi.org/10.48550/arXiv.1803.03176>.

Journal Articles

- [4] Harald Semmelrock, Tony Ross-Hellauer, Simone Kopeinik, Dieter Theiler, Armin Haberl, Stefan Thalmann, and Dominik Kowald. Reproducibility in machine-learning-based research: Overview, barriers, and drivers. *AI Magazine*, 46(2), 2025. URL <https://doi.org/10.1002/aaai.70002>.
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FAIR-AI, Know Center Research GmbH & TU Graz – Sandgasse 34 – Graz, Austria

☎ +43 664 6191718 • ✉ dkowald@know-center.at

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