

Dipl.-Ing. Mag. rer. soc. oec.

Alexander Rind

Personal Data

Title Researcher, Lecturer

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Born November 21, 1978 in Krems, Austria

Nationality Austria

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Main Areas of Research

- Information Visualization (InfoVis)
- Visual Analytics
- Human-Computer Interaction (HCI)
- Analysis of Time-Oriented Data

Academic Career

01/2014–Present Researcher at the Institute of Creative\Media/Technologies (IC\M/T), St. Pölten University of Applied Sciences, Austria

02/2022–06/2022 Lecturer for the Informatics bachelor degree programme at the IMC Fachhochschule Krems, Austria

10/2016–02/2022 Lecturer at the School of Informatics, Communications and Media (Campus Hagenberg), University of Applied Sciences Upper Austria, Austria

03/2014–02/2015 Lecturer at the Institute of Software Technology and Interactive Systems (ISIS), TU Wien, Austria

04/2011–12/2013 Researcher at the Institute of Software Technology and Interactive Systems (ISIS), TU Wien, Austria

03/2008–03/2011 Researcher at the Department of Information and Knowledge Engineering (ike), Danube University Krems, Austria

12/2004–02/2008 Researcher (in the domain of e-tourism) at the Krems Research Forschungsgesellschaft, Austria

10/1999–06/2003 Teaching Assistant at TU Wien, Austria

Education

03/2008–Present PhD studies at TU Wien, Austria
Thesis: “User Tasks in Visualization Design and Evaluation: Toward a Science of Interaction for Time-oriented Data” (working title), Advisor: Silvia Miksch

10/2004–11/2017 MSc studies (Dipl.-Ing.) in Information & Knowledge Management (specialization of Computer Science) at TU Wien, Austria; with highest distinction
Thesis: “A Software Framework for Visual Analytics of Time-oriented Data”, Advisor: Silvia Miksch

09/2010 Visual Analytics Summer School at Middlesex University, London, UK

09/2007 Reasoning Web 2007 Summer School at TU Dresden, Germany

10/1998–07/2004 MSc studies (Mag.rer.soc.oec.) in Wirtschaftsinformatik (comparable to Information Systems or Business Informatics) at TU Wien, Austria, University of Vienna, Austria, and Lund University, Sweden
Thesis: “A Survey and Classification of Web Engineering Methodologies”, Advisor: Mehdi Jazayeri

Awards

2019 Top Downloaded Article in Computer Graphics Forum for Andrienko et al., “Viewing Visual Analytics as Model Building”

2017 Innovation Award of Recognition of the Lower Austrian Government and the Lower Austrian Federal Economic Chamber for the research project “KAVA-Time”

2016 Best Paper Award at Forum Media Technology for Rind et al., “Exploring Media Transparency With Multiple Views”

2015 Best Poster Award at IEEE Conference on Visual Analytics Science and Technology (VAST) for Bögl et al., “Visually and Statistically Guided Imputation of Missing Values in Univariate Seasonal Time Series”

2010 Sparkling Science Award of the Federal Ministry of Science and Research (BM.WF) for the cooperative research project “HorizonVis” with the school HTBL KREMS

Scientific Functions

2021–Present Co-organizer and webmaster for the Audio-Visual Analytics community and workshop series

2015–Present IPC Member for Eurographics Workshop on Visual Analytics (EuroVA), Workshop on Visual Analytics in Healthcare (VAHC), Workshop on Big Data Visual Exploration and Analytics (BigVis)

2012–Present Journal reviewer: e.g., IEEE Trans. Visualization & Computer Graphics (TVCG), Journal of the American Medical Informatics Association (JAMIA), Wiley Computer Graphics Forum, Sage Information Visualization, The Visual Computer (TVCJ), PLOS ONE

2012–Present External reviewer for conferences: e.g., IEEE VIS, Eurographics Conference on Visualization, ACM Human Factors in Computing Systems (CHI)

2011–Present Contributor to various open-source projects at GitHub: easyNWK (lead developer), TimeBench (lead developer), EvalBench (deputy lead developer), netflower, PubViz, prefuse

2012 Student volunteer for Eurographics/IEEE Conf. Visualization (EuroVis 2012)

Invited Talks

07/2016 Invited talk at Rostock University, Germany: “User Tasks in Visualization Design and Evaluation”

04/2016 Invited talk at DevLAB, Oulu University of Applied Sciences, Finland: “Information Visualization with a Focus on Health Care”

10/2015 Invited talk at Rinaldi, G. (ed.), International Workshop 2015: Medical records update, A.O. Ospedali Riuniti Marche Nord, Pesaro, Italy: “Visual Analytics of Health Care Data with a Focus on Time”

01/2015 Invited talk at Blaise, J.-Y. (ed.), MAP 2015 – Modeles et Simulations pour l’Architecture et le Patrimoine, Campus CNRS Joseph Aiguier, Marseille, France: “Visual Analytics with a Focus on Time”

06/2012 Invited Demo at EuroVis 2012 LabVisit in conjunction with the EuroGraphics/VGTC Conference on Visualization, VRVis, Vienna, Austria: “TimeRider – Exploring Bivariate Data across Time with Static and Dynamic Scatter Plots”

Grants/Projects Funded

2022–2025 TransSoDia: Transnational and Digital Learning and Teaching in Cooperative Social Diag-

	nostics, European Commission via Erasmus+, co-author of proposal & work package lead, EUR 250,676
2020–2024	SoniVis: Data Analytics using Sonification and Visualization, Austrian Science Fund (FWF), co-author of proposal, EUR 399,736
2018	ContractVis: Der visuelle Assistent fürs Kleingedruckte, Internet Foundation Austria (IPA) via netidee, PI, EUR 50,004
2015–2018	VALiD: Visual Analytics in Data-Driven Journalism, Austrian Research Promotion Agency (FFG), co-author of proposal & lead of project partner, EUR 556,757
2013–2018	KAVA-Time: Knowledge-Assisted Visual Analytics Methods for Time-Oriented Data, Austrian Science Fund (FWF), co-author of proposal & deputy project manager, EUR 349,808

Key International Cooperation Partners

- Niklas Rönnerberg, Linköping University, Sweden
- Michael Sedlmair, University of Stuttgart, Germany
- Natalia & Gennady Andrienko, Fraunhofer Institute IAIS, Germany and City University, UK

Selected Publications (Top 10)

Open-access pre-/post-prints of most publications are available from alex-rind.github.io/publications.html

- Enge, K., A. Rind, M. Iber, R. Höldrich, and W. Aigner (2023). “Towards a Unified Terminology for Sonification and Visualization”. In: *Journal on Personal and Ubiquitous Computing*. 15 pages, in press/online first. DOI: [10.1007/s00779-023-01720-5](https://doi.org/10.1007/s00779-023-01720-5).
- Rind, A., D. Slijepčević, M. Zeppelzauer, F. Unglaube, A. Kranzl, and B. Horsak (2022). “Trustworthy Visual Analytics in Clinical Gait Analysis: A Case Study for Patients with Cerebral Palsy”. In: *Proc. 3rd IEEE VIS Workshop on TRust and Expertise in Visualization, (TREX)*, pp. 8–15. DOI: [10.1109/TREX57753.2022.00006](https://doi.org/10.1109/TREX57753.2022.00006). arXiv: [2208.05232](https://arxiv.org/abs/2208.05232) [cs.HC].
- Rind, A., M. Wagner, and W. Aigner (2019). “Towards a Structural Framework for Explicit Domain Knowledge in Visual Analytics”. In: *Proc. IEEE Workshop on Visual Analytics in Healthcare, VAHC*. Ed. by D. Wu and R. Ruddle. IEEE, pp. 33–40. DOI: [10.1109/VAHC47919.2019.8945032](https://doi.org/10.1109/VAHC47919.2019.8945032). arXiv: [1908.07752](https://arxiv.org/abs/1908.07752) [cs.HC].
- Stoiber, C., A. Rind, F. Grassinger, R. Gutounig, E. Goldgruber, M. Sedlmair, S. Emrich, and W. Aigner (2019). “netflower: dynamic network visualization for data journalists”. In: *Computer Graphics Forum* 38, pp. 699–711. DOI: [10.1111/cgf.13721](https://doi.org/10.1111/cgf.13721).
- Andrienko, N., T. Lammarsch, G. Andrienko, G. Fuchs, D. Keim, S. Miksch, and A. Rind (2018). “Viewing Visual Analytics as Model Building”. In: *Computer Graphics Forum* 37.6, pp. 275–299. DOI: [10.1111/cgf.13324](https://doi.org/10.1111/cgf.13324).
- Wagner, M., D. Slijepcevic, B. Horsak, A. Rind, M. Zeppelzauer, and W. Aigner (2018). “KAVAGait: Knowledge-Assisted Visual Analytics for Clinical Gait Analysis”. In: *IEEE Trans. Visualization and Computer Graphics* 25.3, pp. 1528–1542. DOI: [10.1109/TVCG.2017.2785271](https://doi.org/10.1109/TVCG.2017.2785271).
- Rind, A., A. Haberson, K. Blumenstein, C. Niederer, M. Wagner, and W. Aigner (2017). “PubViz: Lightweight Visual Presentation of Publication Data”. In: *Proc. Eurographics Conf. Visualization (EuroVis) – Short Papers*. Ed. by B. Kozlíková, T. Schreck, and T. Wischgoll. EuroGraphics, pp. 169–173. DOI: [10.2312/eurovisshort.20171152](https://doi.org/10.2312/eurovisshort.20171152).
- Rind, A., W. Aigner, M. Wagner, S. Miksch, and T. Lammarsch (2016). “Task Cube: A Three-Dimensional Conceptual Space of User Tasks in Visualization Design and Evaluation”. In: *Information Visualization* 15.4, pp. 288–300. DOI: [10.1177/1473871615621602](https://doi.org/10.1177/1473871615621602).
- Rind, A., T. Lammarsch, W. Aigner, B. Alsallakh, and S. Miksch (2013). “TimeBench: A Data Model and Software Library for Visual Analytics of Time-Oriented Data”. In: *IEEE Trans. Visualization and Computer Graphics* 19.12, pp. 2247–2256. DOI: [10.1109/TVCG.2013.206](https://doi.org/10.1109/TVCG.2013.206).
- Rind, A., T. D. Wang, W. Aigner, S. Miksch, K. Wongsuphasawat, C. Plaisant, and B. Shneiderman (2013). “Interactive Information Visualization to Explore and Query Electronic Health Records”. In: *Foundations and Trends in Human-Computer Interaction* 5.3, pp. 207–298. DOI: [10.1561/11000000039](https://doi.org/10.1561/11000000039).