Curriculum Vitae

Prof. Dr. Alexander Nolte

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Scopus: 14
Google Scholar H-Index: 19
https://scholar.google.com/citations?user=oVmn0QQAAAAJ&hl=en

Education

2009 – 2014	Faculty of Business Administration and Economics, University Duisburg-Essen, Germany **Dr. rer. nat. (PhD in Information Systems)** Dissertation: Flexibilisierung kollaborativer Prozessmodellierung durch den Einsatz webbasierter Modellierungswerkzeuge (written in German) *Sehr gut* (magna cum laude) Advisor: Prof. Dr. Thomas Herrmann (Ruhr-University Bochum, Germany) Advisor: Prof. Dr. Volker Gruhn (University Duisburg-Essen, Germany)
1999 – 2008	Department of Computer Science, TU Dortmund University, Germany **Dipl.-Inform. (MSc equivalent in Computer Science)** Diplomarbeit: Konzept und Prototyp eines Usability orientierten webbasierten Editors für semi-strukturierte Modellierung (written in German)

Languages

German – native language

English – speak fluently and read/write with high proficiency (C2)

Academic Positions / Appointments / Work Experience

since 2023	**Software Engineering and Technology Cluster, Eindhoven University of Technology, The Netherlands** Assistant Professor (tenured, since 2023)
since 2018	**Institute of Computer Science, University of Tartu, Estonia** Associate Professor (tenured, 2020 – 2023) Lecturer (Assistant Professor, tenured, 2018 – 2020)
since 2016	**School of Computer Science, Carnegie Mellon University, Pittsburgh, PA, USA** Adjunct Associate Professor (since 2020) Adjunct Assistant Professor (2018 – 2020) Research Associate (2017 - 2018) Temporary Research Programmer (2016 – 2017)
2016 – 2018	**School of Information Sciences, University of Pittsburgh, PA, USA** Postdoctoral Fellow (2017 – 2018) Adjunct Faculty (2017) Visiting Research Fellow (2016 – 2017)
2016 – 2017	**EURO-FH University of Applied Sciences, Hamburg, Germany** Online-Tutor (2016 – 2017)
2009 – 2016	**Institute of Applied Work Science, Ruhr-University Bochum, Germany** Postdoctoral Research Fellow (2014 – 2016) Researcher and PhD student (2009 – 2014)
2013	**School of Information Systems, Queensland University of Technology, Brisbane, Australia** Visiting Research Fellow (2013)
2008 – 2009	**fromatob.com, Germany** Front-end Developer (2008 – 2009)

Awards and Professional Recognition

2024	Best Paper award for the paper "Explanatory Capabilities of Large Language Models in Prescriptive Process Monitoring" presented at the *International Conference on Business Process Management*
2024	Best Event Report award for the paper "FacultyHack Events: Faculty-Focused Hackathons for High-Performance Computing Curriculum Development" presented at the *International Conference on Game Jams, Hackathons, and Game Creation Events*
2023	Best Conference Paper award for the paper "A framework to promote process recommendations through organizational practices" presented at the *Conference of the Italian Chapter of the Association for Information Systems*
2023	Runner Up award for the paper "Startup creation beyond hackathons – A survey on startup development and support" presented at the *International Conference on Software Business*
2023	Best Demo award for the paper "Kairos: A Tool for Prescriptive Monitoring of Business Processes" presented at the *International Conference on Process Mining*
2023	Reviewers' Honorable mention for service at the *International Conference on Business Process Management*.
2023	Distinguished Reviewer Award for service at the Software Engineering in Society (SEIS) track at the *International Conference on Software Engineering*
2021	Best Paper Award for the paper "Interpreting externally expressed intentions of an autonomous vehicle" presented at the *International Conference on Human System Interaction*
2020	Runner-up for 2019 Best Paper Award for the paper "Designing Corporate Hackathons With a Purpose" published in *IEEE Software*
2019	ACM SIGSOFT Distinguished Paper Award for the paper "Going Farther Together: The Impact of Social Capital on Sustained Participation in Open Source" presented at the *International Conference on Software Engineering*
2016	Special award Sandro D'Atri for the paper "Socio-technical Process Design – The Case of Coordinated Service Delivery for Elderly People" presented at the *Conference of the Italian Chapter of the Association for Information Systems*

Awarded Grants and Fellowships

2023 – 2024	Alfred P. Sloan Foundation, USA Research project *"Socio-technical orchestration for hybrid hackathons – A pilot project"* (Author, PI, $99,604)
2023	German Federal Government Commissioner for Culture and Media, Germany

Research project *"Studying Hackathons & other open-innovation grassroots events to understand their role and impact in boosting entrepreneurship in cultural & creative industries"* (Co-PI, 295.000 € total funding value, 60.000 € for the University of Tartu)

2021 – 2024	National Science Foundation (NSF), USA CISE Community Research Infrastructure project *"World of Code (WoC): The Development of a Curated Code Resource to Support Research in Software Engineering"* (Co-author, Community Outreach and Engagement Director, $750,000 total funding value, $20,000 for outreach position)
2021 – 2023	Alfred P. Sloan Foundation, USA & German Federal Government Commissioner for Culture and Media, Germany Support for the workshop series "*Hack the Hackathon: Shaping the Future of Hackathon Research and Practice*" at the Lorentz Center, Leiden, The Netherlands, December 2021, at the Flatiron Institute, New York, USA, October 2022, and at the SDG Solution Space, Geneva, Switzerland, November 2023 (Author, principal investigator, $160,000)
2020 – 2025	Estonian Research Council (ERC), Estonia Applied research project *"Prescriptive Monitoring of Business Processes"* (Co-author and senior personnel, lead of WP4 – Usability of Prescriptive Process Monitoring, 675.000 € total funding value, ~100.000 € for WP4)
2019 – 2021	Estonian Research Council (ERC) – NUTIKAS program, Estonia Applied research project *"Applied Research on Development of Autonomous Driving Lab for Level 4 Autonomy"* (Co-author and senior personnel, co-lead of WP7 – human vehicle interaction, 1.201.000 € total funding value, ~50.000 € for WP7)
2017 – 2019	Deutsche Forschungsgemeinschaft (DFG), Germany Research fellowship for the project *Supporting sustained collaboration over time in hybrid collocated and online settings* at the University of Pittsburgh, PA, USA (Author, PI, 103.249,80 €)
2017 – 2019	University of Pittsburgh Social Science Research Initiative, USA Applied research project *"We are strong! Leveraging Information Technology to Empower Marginalized Communities"* (Co-author and senior personnel, $50.000)
2013 – 2017	Bundesministerium für Bildung und Forschung (BMBF), Germany Applied research project *"Kompetenzorientiertes Unternehmenscoaching für ein nachhaltiges Kompetenzmanagement in KMU (4C4Learn)"* (Co-author and senior personnel, lead of WP2 – Entwicklung betriebsspezifischer Kompetenzmodelle und IT-Umsetzung, 1.180.000 € total funding value, 158.492,40 € for WP2)
2013	German Academic Exchange Service (DAAD), Germany Scholarship for a short-term research visit, Queensland University of Technology, Brisbane, Australia (Author, Principal investigator, 5.256 €)
2008	Bundesministeriums für Wirtschaft und Energie (BMWi), Germany eXist Business Start-up Grant, RWTH Aachen University, Germany (Front-end Developer, 11.600 €)

Student Advising (PhD, EngD and Master level)

since 2023	Lavinia Paganini (PhD, Eindhoven University of Technology, The Netherlands)
since 2021	Kateryna Kubrak (PhD, University of Tartu, Estonia)
since 2018	Maria Angelica Medina Angarita (PhD, University of Tartu, Estonia)
2024	Hassan Teymoori (EngD, Eindhoven University of Technology, The Netherlands)
2018 – 2023	Abasi-Amefon Obot Affia (PhD, University of Tartu, Estonia)
2023	Lana Botchorishvili (Master, University of Tartu, Estonia), Karl Rapur (Master, University of Tartu, Estonia, ongoing)
2022	Janna-Liina Leemets (Master, University of Tartu, Estonia), Alina Nekrasova (Master, University of Tartu, Estonia)
2021	Andrew Bennett (Master, University of Tartu, Estonia), Ahmed Samir Imam Mahmoud (Master, University of Tartu, Estonia), Ayaz Karimov (Master, University of Tartu, Estonia), Kateryna Kubrak (Master, University of Tartu, Estonia), Kristina Meister (Master, University of Tartu, Estonia), Alina Nekrasova (Master, University of Tartu, Estonia), Katrin Shuyler (Master, University of Tartu, Estonia), Tähe-Kai Tillo (Master, University of Tartu, Estonia), Abdul Wahab (Master, University of Tartu, Estonia), Mengchen Yong (Carnegie Mellon University, Pittsburgh, PA, USA)
2020	Alar Leemet (Master, University of Tartu, Estonia), Timo Soiunen (Master, University of Tartu, Estonia)
2019	Sofiya Demchuk (Master, University of Tartu, Estonia), Karl-Martin Uiga (Master, University of Tartu, Estonia)
2016	Malte Brokkötter (Master, Ruhr-University Bochum, Germany), Isabella Rüsing (Master, Ruhr-University Bochum, Germany)

Scientific Community Service

Committees:

2025	International Conference on Software Engineering (program committee)
2024	International Conference on Game Jams, Hackathons and Game Creation Events (program chair)
2024	ACM Conference on Computer-Supported Cooperative Work and Social Computing (associate chair)
2024	International Conference on Evaluation and Assessment in Software Engineering (program committee)
2024	Cooperative and Human Aspects of Software Engineering (CHASE) track of the International Conference on Software Engineering (ICSE) (proceedings chair)

2023	International Conference on Business Process Management (program committee)
since 2023	Software Engineering in Society (SEIS) track of the International Conference on Software Engineering (ICSE) (program committee)
2023	International Conference on Mining Software Repositories (mining challenge co-chair)
2021	International Conference on Mining Software Repositories (hackathon track co-chair)
2021	International Conference on Collaboration Technologies and Social Computing (conference co-chair)
since 2021	International Conference on Game Jams, Hackathons, and Game Creation Events (program committee)
2020	International Conference on Collaboration Technologies and Social Computing (program co-chair)
2019	ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (registration chair)
since 2019	International Conference on Collaboration Technologies and Social Computing (program committee)
2018 – 2022	ACM International Conference on Supporting Group Work (program committee, associate chair)
2018	International Conference on Advanced Information Systems Engineering (social media chair)
since 2017	Workshop on Socio-Technical Perspective in IS development (program chair, program committee)
since 2016	International Conference on Global Software Engineering (program committee)

Reviewer:

Journals	International Journal of Human-Computer Interaction, Business Information Systems Engineering (BISE), IEEE Software, Business Process Management Journal, Journal of Business Analytics, Journal of Systems and Software
Conferences	ACM Conference on Human Factors in Computing Systems (CHI), ACM Conference on Computer-Supported Cooperative Work (CSCW), International Conference on Information Systems (ICIS)

Invited Talks and Panels

2024	Fostering diversity in hackathons - Do's and don'ts – joint keynote with Jeanette Falk Sixth Annual UK Conference of the HCP-AI Advisory Council, Leicester, United Kingdom (16.10.)
2024	Panel - Accessibility and Inclusivity; Community Engagement and Education; Interdisciplinary Collaboration Sixth Annual UK Conference of the HCP-AI Advisory Council, Leicester, United Kingdom (16.10.) – panelist
2024	Advancing scientific software one hackathon at a time Federal University of Pernambuco, Recife, Brazil (10.07.)
2024	You hacked and now what? - Fostering the impact of hackathons – keynote .Astronomy 13, European Space Agency, Madrid, Spain (26.04.)
2024	On time-bounded participant-driven events as a means of community building Capgemini, Eindhoven, The Netherlands (24.04.)
2024	Human role and agency in the age of AI University of Applied Sciences Cologne, Cologne, Germany (02.02.)
2023	Panel on Innovation in the Public Sector as part of Innovation Week 2023, online (07.11., https://semanadeinovacao.enap.gov.br/en/) – panelist
2023	Human role and agency in the age of AI Eindhoven University of Technology, Eindhoven, The Netherlands (22.05.)
2023	Digital transformation as an endeavor for organizations and society University of Applied Sciences Münster, Münster, Germany (26.04.)
2023	One-off events? Exploring the impact of hackathons in open source and beyond Eindhoven University of Technology, Eindhoven, The Netherlands (07.02.)
2022	Partizipative IT Gestaltung zur Förderung von Innovation für eine digitale Gesellschaft (German) University of Kassel, Kassel, Germany (25.01.)
2021	Panel on Student Competitions at the ACM Practice & Experience in Advanced Research Computing (PEARC) conference (19.07. – 22.07., https://pearc.acm.org/pearc21/student-program/panel-on-student-competitions/) – panelist
2020	Social aspects of computing: Supporting sustainable collaboration in hybrid settings University of Tartu, Tartu, Estonia (27.01.)
2019	Hackathons – Current practice and missed opportunities University of Tennessee, Knoxville, TN, USA (15.11.) Oak Ridge National Laboratory (ORNL), Oak Ridge, TN, USA (14.11.) Johannes Kepler University Linz, Linz, Austria (23.05.)

2018	Designing hackathons with a purpose IEEE Estonia Section Summer Seminar 2018, Jäneda, Estonia (20.08.)
2016	Supporting sustained collaboration over time – A socio-technical approach University of Missouri, Columbia, MO, USA (28.10.)
2015	Collaboration on and interaction with models of socio-technical processes Middlesex University, London, UK (03.11.)

Published Open Access Resource

2020	Hackathon Planning Kit – A web-based multi-level methodological framework to help prospective hackathon planners navigate the numerous design decisions to make their event a success (https://hackathon-planning-kit.org/)

Institutional service

2021	Search committee chair for faculty position Department of Computer Science, University of Tartu, Estonia
2021	Search committee member for faculty position Department of Computer Science, University of Tartu, Estonia
2021	Search committee member for adjunct faculty position Department of Computer Science, Norwegian University of Science and Technology, Norway
2019 – 2021	Erasmus+ Intereuropean Student Migration Coordinator for Partnership Agreements
2019 – 2021	Head of the executive Master specialization module "Digital Product Design and Management"

Dissemination / Outreach Activities

2024	Hack Beyond the Code Hackathon, Recife, Brazil and online (12.07.) – co-organizer
2023	World of Code Hackathon, Knoxville, TN, USA and online (17.11. – 19.11.) – co-organizer
2023	Hybrid workshop on "Hack the Hackathon, Volume 3", SDG Solution Space, Geneva, Switzerland (06..11. – 10.11.2023, http://hackthehackathon.org/) – co-organizer
2023	Generative AI Innovation Incubator Hackathon series, online, Carnegie Mellon University, USA (17.06. – 11.08.2023, https://www.cs.cmu.edu/generative-ai/hackathons) – co-organizer

2023	Interview on Dataskeptik podcast on incentivizing survey participation (30.01.2023, https://dataskeptic.com/blog/episodes/2023/casual-affective-triggers)
2022	Hybrid workshop on "Hack the Hackathon, Volume 2", Flatiron Institute, New York, USA (03.10.- 07.10., https://indico.flatironinstitute.org/event/3157/) – co-organizer
2022	World of Code Hackathon, Pittsburgh, PA, USA (21.05. – 22.05.) – co-organizer
2021	#wirfuerschule hackathon, online, Germany (13.06. – 18.06.) – scientific advisor
2021	Lorentz Center workshop "Hack the Hackathon: Shaping the Future of Hackathon Research and Practice", online, The Netherlands (06.12.- 10.12., https://www.lorentzcenter.nl/hack-the-hackathon-shaping-the-future-of-hackathon-research-and-practice.html) – co-organizer
2021	Interview with Techable on the evolution of hackathons during the COVID crisis, Japan (https://techable.jp/archives/155860)
2020	World of Code Hackathon, online, USA (14.11. – 05.12.) – co-organizer
2020	Cybersecurity Hackathon, online, Estonia (23.10. – 25.10.) – co-organizer
2020	Hello Future_ hackathon, USA and Arabat, Syria (23.05. – 30.05.) – juror
2020	The Global Hack, online, Estonia (09.04. – 12.04.) – mentor
2019	World of Code Hackathon, Pittsburgh, PA, USA (01.11. – 03.11.) – co-organizer
2019	Cybersecurity Hackathon, Tartu, Estonia (11.10. – 13.10.) – co-organizer
since 2018	Co-organizer of a hackathon series in the high-performance computing community (http://hackhpc.org/)