

# Curriculum Vitae

Prof. Dr. Alexander Nolte

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Scopus: 13  
Google Scholar H-Index: 19  
<https://scholar.google.com/citations?user=oVmnoQQAAAAJ&hl=en>

## Education

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

## Languages

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German – native language

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

## Academic Positions / Appointments / Work Experience

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| since 2023  | <b>Software Engineering and Technology Cluster, Eindhoven University of Technology, The Netherlands</b><br>Assistant Professor (since 2023)  |
| since 2016  | <b>School of Computer Science, Carnegie Mellon University, Pittsburgh, PA, USA</b><br>Adjunct Associate Professor (since 2020)<br>Adjunct Assistant Professor (2018 – 2020)<br>Research Associate (2017 - 2018)<br>Temporary Research Programmer (2016 – 2017) |
| 2018 – 2024 | <b>Institute of Computer Science, University of Tartu, Estonia</b><br>Associate Professor (tenured, 2020 – 2023)<br>Lecturer (Assistant Professor, tenured, 2018 – 2020)   |
| 2016 – 2018 | <b>School of Information Sciences, University of Pittsburgh, PA, USA</b><br>Postdoctoral Fellow (2017 – 2018)<br>Adjunct Faculty (2017)<br>Visiting Research Fellow (2016 – 2017)  |
| 2016 – 2017 | <b>EURO-FH University of Applied Sciences, Hamburg, Germany</b><br>Online-Tutor (2016 – 2017)  |
| 2009 – 2016 | <b>Institute of Applied Work Science, Ruhr-University Bochum, Germany</b><br>Postdoctoral Research Fellow (2014 – 2016)<br>Researcher and PhD student (2009 – 2014)  |
| 2013        | <b>School of Information Systems, Queensland University of Technology, Brisbane, Australia</b><br>Visiting Research Fellow (2013)  |
| 2008 – 2009 | <b>fromatob.com, Germany</b><br>Front-end Developer (2008 – 2009)  |

## Awards and Professional Recognition

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| 2023 | Best Conference Paper award for the paper "A framework to promote process recommendations through organizational practices" presented at the <i>Conference of the Italian Chapter of the Association for Information Systems</i>              |
| 2023 | Runner Up award for the paper "Startup creation beyond hackathons – A survey on startup development and support" presented at the <i>International Conference on Software Business</i>  |
| 2023 | Best Demo award for the paper "Kairos: A Tool for Prescriptive Monitoring of Business Processes" presented at the <i>International Conference on Process Mining</i>   |
| 2023 | Reviewers' Honorable mention for service at the <i>International Conference on Business Process Management</i> .  |
| 2023 | Distinguished Reviewer Award for service at the Software Engineering in Society (SEIS) track at the <i>International Conference on Software Engineering</i>   |
| 2021 | Best Paper Award for the paper "Interpreting externally expressed intentions of an autonomous vehicle" presented at the <i>International Conference on Human System Interaction</i>   |
| 2020 | Runner-up for 2019 Best Paper Award for the paper "Designing Corporate Hackathons With a Purpose" published in <i>IEEE Software</i>   |
| 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 <i>International Conference on Software Engineering</i>                 |
| 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 <i>Conference of the Italian Chapter of the Association for Information Systems</i> |

## Awarded Grants and Fellowships

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| 2023 – 2024 | Alfred P. Sloan Foundation, USA<br>Research project " <i>Socio-technical orchestration for hybrid hackathons – A pilot project</i> " (Author, PI, \$99,604)  |
| 2023        | German Federal Government Commissioner for Culture and Media, Germany<br>Research project " <i>Studying Hackathons &amp; other open-innovation grassroots events to understand their role and impact in boosting entrepreneurship in cultural &amp; creative industries</i> " (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 betriebspezifischer 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)

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since 2024	Hassan Teymoori (EngD, Eindhoven University of Technology, The Netherlands)
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)
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 Soijen (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

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### Committees:

2025	International Conference on Software Engineering (program committee)
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)
since 2018	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

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| 2024 | Human role and agency in the age of AI<br>University of Applied Sciences Cologne, Cologne, Germany (02.02.)   |
| 2023 | Panel on Innovation in the Public Sector as part of Innovation Week 2023,<br>online (07.11., <a href="https://semanadeinovacao.enap.gov.br/en/">https://semanadeinovacao.enap.gov.br/en/</a> ) – panelist   |
| 2023 | Human role and agency in the age of AI<br>Eindhoven University of Technology, Eindhoven, The Netherlands (22.05.)   |
| 2023 | Digital transformation as an endeavor for organizations and society<br>University of Applied Sciences Münster, Münster, Germany (26.04.)  |
| 2023 | One-off events? Exploring the impact of hackathons in open source and<br>beyond<br>Eindhoven University of Technology, Eindhoven, The Netherlands (07.02.)  |
| 2022 | Partizipative IT Gestaltung zur Förderung von Innovation für eine digitale<br>Gesellschaft (German)<br>University of Kassel, Kassel, Germany (25.01.)   |
| 2021 | Panel on Student Competitions at the ACM Practice & Experience in Advanced<br>Research Computing (PEARC) conference (19.07. – 22.07.,<br><a href="https://pearc.acm.org/pearc21/student-program/panel-on-student-competitions/">https://pearc.acm.org/pearc21/student-program/panel-on-student-competitions/</a> ) – panelist |
| 2020 | Social aspects of computing: Supporting sustainable collaboration in hybrid<br>settings<br>University of Tartu, Tartu, Estonia (27.01.)   |
| 2019 | Hackathons – Current practice and missed opportunities<br>University of Tennessee, Knoxville, TN, USA (15.11.)<br>Oak Ridge National Laboratory (ORNL), Oak Ridge, TN, USA (14.11.)<br>Johannes Kepler University Linz, Linz, Austria (23.05.)  |
| 2018 | Designing hackathons with a purpose<br>IEEE Estonia Section Summer Seminar 2018, Jäneda, Estonia (20.08.)   |
| 2016 | Supporting sustained collaboration over time – A socio-technical approach<br>University of Missouri, Columbia, MO, USA (28.10.)   |
| 2015 | Collaboration on and interaction with models of socio-technical processes<br>Middlesex University, London, UK (03.11.)  |

## Published Open Access Resource

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- 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

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- 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

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- 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://dataskeptik.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/>)