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### Career summary

- WiSe 2023 **Professor for Computational Social Sciences and Humanities (interim, W3)**, *RWTH Aachen*.  
Aachen, Germany
- 2021-2023 **Marie Curie Fellow**, *TU Graz, Institute for Interactive Systems and Data Science, Computational Social Science Lab*, research focus: Machine learning, natural language processing, statistical modelling and computational modelling to understand complex social systems with applications in social science, social network analysis, epidemiology, psychology and political science.  
Graz, Austria
- Jan 2020 – Mar 2021 **Postdoctoral researcher**, *Complexity Science Hub (CSH), Medical University Vienna*, modeling and big data analytics focused on interaction networks in medicine and social media.  
Vienna, Austria
- 2019 **Postdoctoral researcher**, *MPIDS, Department of Complex Fluids and Georg-August-University, Centre for Statistics*, numerical modeling, data analysis and development of a Data Science curriculum.  
Göttingen, Germany
- 2015–2018 **Doctoral researcher**, *MPIDS, Department of Complex Fluids, Goehring lab*, field studies, analogue experiments, numerical simulations and modeling.  
Göttingen, Germany
- 2013–2015 **Scientific assistant**, *MPIDS*, development of “NET”, a framework for the automated extraction of network data from high resolution images.  
Göttingen, Germany

### Education

- 2023 **Cumulative habilitation in "Applied Computer Science"**, *under review, expected award date: October 2023, TU Graz*.  
Thesis: Computational Modelling of Complex Social Systems
- 2015–2018 **Dr. rer. nat. Physics**, *Georg-August-University and Göttingen Graduate School for Neurosciences, Biophysics, and Molecular Biosciences (GGNB)*, Göttingen, Germany.  
Advisor: Prof. [Lucas Goehring](#)  
Thesis: *Geophysical pattern formation of salt plays*  
Grade: magna cum laude
- 2013–2015 **M.Sc. Physics**, *Georg-August-University and Max Planck Institute for Dynamics and Self-Organization (MPIDS)*, Göttingen, Germany.  
Advisor: Prof. [Eleni Katifori](#)  
Thesis: *Network analysis and hidden phenotypes in large biological datasets*  
Grade: 1.1
- 2009–2013 **B.Sc. Physics**, *Georg-August-University and MPIDS*, Göttingen, Germany.  
Advisor: Prof. [Eleni Katifori](#)  
Thesis: *Computational analysis framework for vascular network images*  
Grade 2.4
- 2009 **Matura**, *Realgymnasium Dreierschützengasse*, Graz, Austria.  
Grade: 1.0

### Additional qualifications

- 2023 **Summer School**, *Complex Systems Summer School, Santa Fe Institute*, research of complex behavior in mathematical, physical, living, and social systems.  
160 hours

- since 2022 **Leadership training**, [Leading Women TU Graz](#), advanced leadership competencies in academic contexts.
- 2022 **Didactics module "basic"**, [Teaching Academy TU Graz](#), Qualification for independent teaching at higher education institutions.  
40 hours
- 2021 **Summer School**, [Oxford Machine Learning Summer School](#), Latest developments in computer vision, graph ML, natural language processing and ML for health applications.  
80 hours
- 2021 **Summer School**, [Summer Institutes in Computational Social Science \(SICSS\) in Helsinki](#), Network analysis, simulations and complex systems, validity and reliability of CSS, research ethics for CSS.  
80 hours
- 2019 **Leadership training**, [German Physical Society program "Leading for Tomorrow"](#), core competencies of leadership and management in industrial and higher education contexts.  
56 hours
- 2018 **Project management**, [GGNB](#), Fundamental and advanced competencies in agile project management.  
40 hours

## University teaching

- 2022–23 **Research Seminar for Computational Social Systems in the specialisation "Societies, Technologies and Social Research"**, *supervision of research projects*, target group: master students of the Computational Social Systems master, TU Graz, ECTS: 6, 8 students.  
Role: lecturer
- 2022 **Computational Social Science Summer School (SICSS)**, [Two-week summer school with lectures, group problem sets, and participant-led research projects to give an introduction to the field of Computational Social Science](#), for details see [lecture materials](#), target group: social scientists and computer scientists, master-level and above, TU Graz & RWTH Aachen, ECTS: 4, 40 students.  
Role: lecturer
- 2021–22 **Computational Models of Social Systems**, *Computational models for social systems: game of life, agent-based models, network models, advanced programming in python*. For details see [lecture materials](#), target group: students of the Computational Social Systems master, TU Graz, ECTS: 4, lecture with exercises with ≈ 70 students.  
Role: lecturer
- 2021–22 **Foundations of Computational Social Systems**, *Introduction to Computational Social Science (CSS), basics of programming (R), data acquisition and handling, visualization and statistics, network analysis, ethical aspects of CSS*. For details see [lecture materials](#), target group: students of the Computational Social Systems master, TU Graz, ECTS: 4, lecture with exercises with ≈ 70 students.  
Role: lecturer
- 2021–22 **Digital Transformation in Research**, *digital methods in research, including literature management and search, good coding practices, best practices for open and transparent research and science communication using social media platforms*. For details see [lecture materials](#), target group: PhD students and PostDocs, Ludwig Boltzmann Society, 2 days.  
Role: lecturer
- 2019 **Daten Lesen Lernen**, *Basics of programming (Python), data handling, visualization and statistics*. For details see [lecture materials](#), target group: bachelor students with all backgrounds, University of Göttingen ECTS: 6, lecture with exercises with ≈ 30 students.  
Role: lecturer
- 2019 **Live hack session "Does Donald Trump have the best words?"**, *live demonstration of a data analysis process using Twitter data of Donald Trump and Russian trolls*. For details see [lecture materials](#), target group: bachelor students with all backgrounds, University of Göttingen, 3 hours.  
Role: lecturer
- 2017–2018 **Introduction to Data Science**, *Data handling, visualization, statistics and basics of machine learning (clustering, neural networks)*. For details see [lecture materials](#), target group: physics master students, biology, neuroscience and physics PhD students, University of Göttingen, ECTS: 4, lecture with exercises with ≈ 40 students.  
Role: lecturer

- 2017 **Pattern recognition and machine learning**, *Basics of modern machine learning techniques, including (logistic) regression, clustering, SVMs and neural nets*, target group: physics master students, University of Göttingen, ECTS: 6, lecture with exercises with  $\approx$  50 students.  
Role: teaching assistant
- 2016 **Programming from women for women**, *Introduction to programming for students without any prior programming knowledge. For details see [lecture materials](#)*, target group: geology and geography bachelor and master students, University of Göttingen, 2 day block course.  
Role: lecturer
- 2015 **Introduction to interactive network analysis in Python**, *Handling and analysis of networks using NetworkX and graph-tool*, target group: biology, neuroscience and physics PhD students, University of Göttingen, ECTS: 2, lecture with exercises with  $\approx$  20 students.  
Role: lecturer
- 2015 **Experimental physics for non-physicists**, *Basic concepts from physics including mechanics, fluid dynamics, thermodynamics and electrostatics*, target group: medicine undergraduates, University of Göttingen, ECTS: 6, lecture with exercises with  $\approx$  30 students in my tutorial.  
Role: teaching assistant

## Student supervision

- 2021–present **PhD thesis**, *A computational taxonomy of problem coping strategies*, student: Alina Herderich.  
Role: co-supervisor, TU Graz
- 2022–present **PhD thesis**, *Emotional Misinformation*, student: Jula Luehring.  
Role: co-supervisor, Uni Vienna
- 2023 **Master's thesis**, *Analysing the structure of conspiracy theories in Telegram chats*, student: Mathias Angermaier.  
Role: supervisor, TU Graz & Uni Graz
- 2023 **Master's thesis**, *How should patient-allocation policies and staff allocation strategies be combined to maximise patient survival in a mass-casualty incident?*, student: Florentina Hager.  
Role: co-supervisor, TU Graz & Uni Graz
- 2023 **Master's thesis**, *Combining surveys and course enrolment data to analyse success factors for university students*, student: Amani Brandweiner.  
Role: co-supervisor, TU Graz & Uni Graz
- 2022–present **Master's thesis**, *Applying network analysis and machine learning approaches to understand the dynamics of political polarization in real-time*, student: Elisabeth Höldrich.  
Role: supervisor, TU Graz
- 2021–2022 **Master's thesis**, *Misinformation detection with multimodal data*, student: Valentin Rupp.  
Role: supervisor, TU Vienna & Complexity Science Hub Vienna
- 2021–2022 **Intern**, *A data driven approach to find the most pressing questions for young mothers*, student: Magdalena Fritz.  
Role: supervisor, TU Vienna & Complexity Science Hub Vienna
- 2021–2022 **Intern**, *Exploring the #IchBinHanna movement through digital traces on Twitter*, student: Ahmadou Wagne.  
Role: supervisor, TU Vienna & Complexity Science Hub Vienna
- 2021 **Intern**, *Exploring the #IchBinHanna movement through digital traces on Twitter*, student: Elen Le Foll.  
Role: supervisor, Osnabrück University
- 2017 **Master's thesis**, *Numerical simulation of pattern formation in salt-paya*, student: Marcel Ernst.  
Role: co-supervisor, University of Göttingen & MPIDS
- 2016 **Bachelor's thesis**, *Porous Media Flows in 3D Environments*, student: Birte Thiede.  
Role: co-supervisor, University of Göttingen & MPIDS

## Service

- 2022–present **Senate**, [TU Graz](#), member.
- 2022–present **Ethics commission**, [TU Graz](#), member.
- 2022–present **Data protection board**, [TU Graz](#), member.
- 2022–present **Young Science Ambassador**, [OeAD](#).
- 2022–present **Selection committee**, [CZS Wildcard](#), [Carl Zeiss foundation](#), member.

- 2021–present **Studienkommission**, *Master's programme Computational Social Systems* at *TU Graz*, vice chair.
- 2021–present **Network against Abuse of Power in Science**, (*MaWi*), board member.
- 2020–present **COST action**, "*Researcher Mental Health*", management committee, leader survey working group.
- 2019–present **N<sup>2</sup>**, *network of German non-university PhD representations*, advisory board member.
- 2019–present **International Young Physicists' Tournament**, (*IYPT*), juror.
- 2018 **Max Planck PhDnet**, *representation of doctoral researchers of the Max Planck Society*, president.
- 2015–2017 **Max Planck PhDnet**, *representation of doctoral researchers of the Max Planck Society*, institute and section representative.

## Reviewing activity

- **Journals:** Nature Communications, EPJ Data Science, Journal of Social Computing, Cliodynamics, Epidemics, Journal of Science Communication
- **Conferences:** The Web Conference 2021, Open Science Conference 2021, NetSci 2023

## Conference organisation

- 2021 **IC2S2**, *Zurich, Switzerland*, discussion panel organisation.
- 2017 **Third Infinity**, *Göttingen, Germany*, responsible for budget and parts of the programme.

## Gender mainstreaming activities

- 2022 **"Mind the Gap" diversity award**, *TU Graz*.
- 2018 **Foundation of the working group on parenting in academia**, *Max Planck PhDnet in collaboration with the Max Planck General Administration*.
- 2017 **Head of the Working Group "Equal Opportunities"**, *Max Planck PhDnet*.
- 2016 **Lecturer in "Programming from women for women"**, *University of Göttingen*.

## Selected media reactions

- *Sarkasmus & Co: Strategien, um digitalen Hass zu bändigen*, *Kleine Zeitung*, 2023.
- *Ausgezwitschert*, *Falter*, 2023.
- *Why Death Valley Is Full of Polygons*, *Physics*, 2023.
- *Schweigen ist Gold? Von Wegen!*, *Die Presse*, 2023.
- *Republicans are increasingly sharing misinformation, research finds*, *The Washington Post – Monkey Cage*, 2022.
- *US politicians tweet far more misinformation than those in the UK and Germany – new research*, *The Conversation*, 2022.
- *Stresstest zur Ärzteversorgung zeigt große regionale Unterschiede*, *Die Presse*, 2022.
- *Warum der Blick in die Zukunft so schwierig ist*, *Der Standard*, 2022.
- *Von Kuh-Daten und Menschen*, *Ö1*, 2022.
- *Omikron erschwert Pandemiebekämpfung an Schulen*, *Der Standard*, 2022.
- *Zur Praxis der Modellierung*, *Technopolitics*, 2021.
- *Richtiges Testen kann Corona-Ausbrüche in Altersheimen unterbinden [The right testing strategy can prevent Corona outbreaks in nursing homes]*, *Der Standard*, 2021.
- *Gut gemachte Apps können bei der Krisenbewältigung helfen*, *Kurier* 2020.
- *Making a difference*, *Physics World*, 2019.
- *Facetten der Macht: Abhängigkeiten und Machtstrukturen in der Wissenschaft*, *Deutschlandfunk*, 2020.
- *Göttinger Studierende lernen das Auswerten von Datensätzen*, *Göttinger Tageblatt*, 2019.
- *Q&A: Doctoral students at Germany's Max Planck Society say recent troubles highlight need for change*, *Science Magazine*, 2018

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## Memberships and affiliations

since 2021 **Associate faculty**, *Complexity Science Hub Vienna*.

since 2009 **Member**, *German Physical Society*.

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## Shortlisted positions

2022 **Assistant Professor of Complexity Science for Societal Good**, *TU Vienna*.

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## Prizes

2022 "Mind the Gap" diversity award from *TU Graz*, for the project "(Wen) regt Frauenfußball auf?", together with Max Pellert. **450 €**

2018–2021 Award by the German *Stifterverband & Heinz-Nixdorf Foundation* to realise the project "**Daten Lesen Lernen**" at the University of Göttingen, together with Thomas Kneib, Benjamin Säfken, Alexander Silbersdorff, Wolfgang Radenbach and Debsankha Manik. **250 000 €**

2015 **Dr. Berliner - Dr. Ungewitter prize** for an outstanding master thesis, *University of Göttingen*.

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## Grants and fellowships

2021 **Fellowship** "Staying at home - the interplay between behavioural synchronisation and physical distancing in prosocial behaviour", individual fellowship, funding agency: *European Commission, Marie Skłodowska-Curie grant No. 101026507*. **174 167 €**

2021 **Grant** "Joint online course" to implement a partner location of the "Summer Institutes for Computational Social Science" (SICSS) in collaboration with RWTH Aachen, funding agency: *TU Graz*, role: principal investigator. **15 000 €**

2020–2024 **Grant** "Researcher mental health observatory", funding agency: *European Commission*, COST action no. [CA19117](#), role: secondary proposer. **472 000 €**

2019–2020 **Fellowship** "**Freies Wissen**" to realise the project "executable papers", funding agency: *Wikimedia Foundation*. **10 000 €**

2019 **Grant** "Daten Lesen Lernen – connecting 4 Data Literacy", program "Innovation Plus", funding agency: *Lower Saxony Ministry for Science and Culture*, role: proposer, together with Thomas Kneib, Benjamin Säfken, Alexander Silbersdorff and Wolfgang Radenbach. **48 630 €**

2018 **Fellowship** to attend the Lindau Nobel Laureate meeting, funding agency: *Max Planck Society*.

2017–2018 **Grant** to realise a field study on geophysical pattern formation in salt deserts in California, funding agency: *DAAD*, role: principal investigator. **10 000 €**

2015–2017 **Fellowship** to realise my dissertation project on geophysical pattern formation in salt playa, funding agency: *GGNB*. **40 000 €**

2014, 2017 **Fellowship** to attend the [European Forum Alpbach](#), funding agency: Club *Alpbach Styria*.

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## Language skills

German **Native**.

English **Fluent**, *working language*.

French **Basic**, *school education*.

Spanish **Basic**, *school education and student exchange*.