

Kirill Solovev

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[✉ scholar profile](#)

Education

2020 – 2024: **PhD in Data Science (Dr. rer. pol.)**, *University of Giessen*, Germany

Thesis: *Leveraging Unstructured Data to Address Societal Challenges in the Digital Age*

Grade: summa cum laude (highest distinction)

2016 – 2019: **MSc in Economics and Politics**, *University of Freiburg*, Germany

Thesis: *Deep Learning in Real Estate: Using Convolutional Neural Networks*

Grade: 4.0 (out of 4)

2011 – 2016: **BSc in Economics**, *Higher School of Economics* in collaboration with the *London School of Economics and Political Science (ICEF)*, Russia

Thesis: *The Meaning of Abstention*

Grade: 3.8 (out of 4)

Academic Experience

2025– **Researcher (VALPOP, Horizon Europe RIA 101177310)**: *University of Graz*, IDEa_Lab, Austria

- **WP Lead:** Lead work on large-scale relationship extraction from multilingual text; design open-source pipelines for entity/relational extraction, graph construction, and network analytics; integrate ML/NLP with computational social science for public-goods governance.
- **Dissemination:** Coordinate with VALPOP partners on data schemas and evaluation; contribute methods notes, replication assets, and policy-facing summaries.
- **Supervision:** Co-supervise student projects aligned with VALPOP; run lab methods sessions on text-to-network pipelines.

2020 – 2025: **Research Associate**: *University of Giessen*, Germany

Contributed to impactful research in data science and computational social science while supporting education, mentorship, and technical infrastructure development

- **Research:** Published seven peer-reviewed papers (H-Index: 6) at renowned outlets in data science and computational social science (e.g., *The Web Conference*, *PNAS Nexus*, *ICWSM*)
- **Teaching:** Led course in data science (200+ participants), undergraduate and graduate seminars in data science and text mining
- **Mentorship:** Supervised more than 50 bachelor and master theses in various fields including data science, finance, and management
- **IT Service:** Deployed and maintained a Docker-based server infrastructure utilized by researchers and students across multiple departments

2019 – 2020: **Research Assistant**: *University of Freiburg*, Germany

Assisted with research and education at the Chair of Information Systems

- **Research:** Assisted with design, execution, and evaluation of experiments contributing to information science research
- **Teaching:** Prepared teaching materials, evaluated exams, and conducted tutorials in data science

Teaching Experience

2020 – 2025: **Data Science for Management** (*Exercise seminar*)

Data Science (*Bachelor's seminar*)

Data Science (*Master's seminar*)

Text Mining (*Master's seminar*)

2019 – 2020: **Introduction to Data Science** (*tutorial*)

Misc

Media Coverage

My research has been featured in leading German and international media outlets, including:

- **The Washington Post** covered our paper on Community Notes
- **Frankfurter Allgemeine Zeitung** took an interview with my co-authors
- **Psychology Today** covered our paper on the propagation of hate speech

Reviewing Activities

I reviewed manuscripts for leading academic conferences and journals, including:

- *The Web Conference*
- *Information Sciences*
- *European Conference on Information Systems (ECIS)*
- *Internationale Tagung Wirtschaftsinformatik (WI)*
- *Societies*

Conference Presentations

- 2024 **WebSci24**, Poster Session
- 2023 **ECPR General Conference**, Paper Presenter
- 2022 **The Web Conference**, Paper Presenter
- 2022 **Machine Learning Summer School**, Poster Session
- 2021 **The Web Conference**, Paper Presenter

Awards

- **Best Poster Award**, WebSci24 2024

Language Skills

- **Russian**: Native Speaker
- **English**: Proficient
- **German**: B2.2

Professional Experience

2014 **Project Manager**: *Dynamo Sports Society*, Russia

Spearheaded social initiatives to improve accessibility within the sports sector:

- **Social Impact Projects**: Coordinated and implemented initiatives to enhance access to sports venues for underprivileged communities across Russia

- **Process Optimization:** Streamlined internal documentation processes, improving workflows and administrative efficiency

Research Interests

Computational social science of online platforms: Communication dynamics, polarization, mobilisation, and information quality across large-scale digital traces.

Algorithmic auditing and platform governance: Measurement and evaluation of recommender systems and feeds, audit design, transparency frameworks, and evidence translation for policy.

Multimodal content analysis: Integrated pipelines for text, audio, and video (ASR, diarisation, computer vision) and cross-lingual modelling of political communication and public discourse.

Online harms and equity: Detection and measurement of toxicity, hate speech, misinformation, and out-group animosity, with a focus on heterogeneous effects and fairness-aware evaluation.

Methods for rigorous inference: Multilevel and causal inference for observational data, field and quasi-experimental designs, uncertainty quantification, validation against human-coded gold standards.

Scalable and reproducible research: LLM-assisted labelling with human verification, containerised workflows, robust data governance, and open-source toolchains and replication packages.

Networks and relational data: Relationship extraction from text, diffusion and interaction networks, and graph-based analysis of collective behaviour.

Publications

Peer-reviewed

2025 **Solovev, Kirill**, & Pröllochs, Nicolas
References to unbiased sources increase the helpfulness of community fact-checks
Scientific reports 15 (25749)

2024 Drolsbach, Chiara, **Solovev, Kirill**, & Pröllochs, Nicolas
Community notes increase trust in fact-checking on social media
PNAS Nexus 3 (7), pgae217

2024 Pilarski, Moritz, **Solovev, Kirill**, & Pröllochs, Nicolas
Community notes vs. sniping: How the crowd selects fact-checking targets on social media
ICWSM, 18, 1262-1275

2023 **Solovev, Kirill**, & Pröllochs, Nicolas
Moralized language predicts hate speech on social media
PNAS Nexus 2 (1), pgac281

2022 **Solovev, Kirill**, & Pröllochs, Nicolas
Moral emotions shape the virality of COVID-19 misinformation on social media
The Web Conference, 3706-3717

2022 **Solovev, Kirill**, & Pröllochs, Nicolas
Hate speech in the political discourse on social media: Disparities across parties, gender, and ethnicity
The Web Conference, 3656-3661

2021 **Solovev, Kirill**, & Pröllochs, Nicolas
Integrating floor plans into hedonic models for rent price appraisal
The Web Conference, 2838-2847

Workshop Papers & Posters

2024 Drolsbach, Chiara, **Solovev, Kirill**, & Pröllochs, Nicolas
Community notes increase trust in fact-checking on social media
WebSci24

2024 **Solovev, Kirill**, & Pröllochs, Nicolas
Moralized language predicts hate speech on social media
WebSci24

2023 **Solovev, Kirill**, & Pröllochs, Nicolas
Hate speech in the political discourse on social media: Disparities across parties, gender, and ethnicity
ECPR General Conference

2021 **Solovev, Kirill**, & Pröllochs, Nicolas
Integrating floor plans into hedonic models for rent price appraisal
Machine Learning Summer School