Maximilian Noichl, MA

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3512 BL Utrecht

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Google Scholar: Profile
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Employment

1 Dec 2023 – ongoing
Utrecht University, Institute of Philosophy & Religious Studies
Doctoral Candidate (100%), supervised by Prof. Daniel Cohnitz, Dr. Dominik Klein & Dr. Erik Stei
Expected to graduate in early 2027.
Utrecht

1 Feb 2021 – 30 Nov 2023
University of Bamberg, Institute of Political Science
Predoctoral researcher (65%) supervised by Prof. Johannes Marx, ScolA-project (DFG)
Bamberg

1 Jan 2021 – 30 Nov 2023
University of Vienna, Institute of Philosophy
Predoctoral researcher (35%) supervised by Prof. Tarja Knuuttila, The Possible Life Project (ERC)
Vienna

1 Jan 2020 – 1 Jan 2021
University of Vienna, Institute of Philosophy
Research Assistant, The Possible Life Project (ERC)
Vienna

Education

1 Oct 2018 – 6 Nov 2020
History and Philosophy of Science, MA (1.0, *with distinction*)
Thesis: *Approximating Manifolds of Intellectual History - A Computational Argument against Great-Man Theory*
University of Vienna, Vienna

1 Oct 2014 – 12 Sep 2017
Philosophy, BA (1.55)
University of Vienna, Vienna

1 Oct 2017 – 31 Jan 2018
Erasmus
Alma Mater Studiorum, Bologna

1 Oct 2012 – 30 Sep 2014
Philosophy & German Literature
University of Konstanz, Konstanz

Research Visits

2026
University of Helsinki
Invited research visit, hosted by Prof. Samuli Reijula
Helsinki, Finland

2025
Research stay
Research collaboration with Prof. Simon DeDeo in conjunction with AGWCSS
Hosted by Prof. Simon DeDeo
Santa Fe, New Mexico, USA

2024
Carnegie Mellon University
Invited research visit, hosted by Prof. Kevin Zollman
Pittsburgh, Pennsylvania, USA

2024
Northwestern University
Invited research visit, hosted by Prof. Ágnes Horvát
Evanston, Illinois, USA

Publications

Working Papers

Maximilian Noichl[1] & Jan Broersen[1]. *Agentic LLMs for Argument Mining in Philosophical Texts*

Maximilian Noichl & Simon DeDeo (available on request). *Structured reasons, but fluid examples, in the evolution of philosophical thought*

Maximilian Noichl, Christophe Malaterre & Alexa Sadier (available on request). *Has the Extended Evolutionary Synthesis Already Happened? A Corpus-Based Perspective*

Maximilian Noichl (available on request). *Patterns, Pathways and Surprises. Introducing OA Atlas, a science mapping tool for philosophers.*

Cyril de Bodt, Alex Diaz-Papkovich, ..., Maximilian Noichl, ..., Gal Mishne, Dmitry Kobak (revise & resubmit, *Patterns*). Low-dimensional embeddings of high-dimensional data. arXiv:2508.15929

Hein Duijf[1], Maximilian Noichl[1] & Ignacio Quintana[1] (under review, *The British Journal for the Philosophy of Science*). *Inequality and the Reliability of Science*

Peer Reviewed Journal Articles

Maximilian Noichl (2023). How localized are computational templates? A machine learning approach. Synthese 201, 107 doi.org/10.1007/s11229-023-04057-x

Maximilian Noichl & Johannes Marx. (2023) Simulation of Group Agency – From Collective Intentions to Proto-Collective Actors. Historical Social Research 48, 3 https://www.jstor.org/stable/27221354

Maximilian Noichl (2021). Modeling the structure of recent philosophy. Synthese 198, 5089–5100 doi.org/10.1007/s11229-019-02390-8

Peer Reviewed Conference Contributions

Haohan Shi, Maximilian Noichl & Emőke-Ágnes Horvát (accepted). *What Happened to CSS? Methods as Boundary Objects in Computational Social Science*. CSCW 2026, Salt Lake City. Companion Proceedings (poster; forthcoming) [presenter: Haohan Shi].

Maximilian Noichl (2023). *How localized are computational templates? A machine learning approach*. SLSAeu 2023, Erlangen. Book of Abstracts, pp. 63–64.

Maximilian Noichl & Lukas Panzer (2023). *PhilroBERTa: Ein multilinguales Sprachmodell zur Beantwortung philosophiehistorischer Fragestellungen*. DHd 2023. doi.org/10.5281/zenodo.7715440

Maximilian Noichl (2021). *The epistemic vices and virtues of dimensionality-reduction*. HaPoC 2021, Zurich. Book of Extended Abstracts, pp. 65–67. Extended abstract

Maximilian Noichl (2020). *Modeling disciplinary structure with uniform manifold approximation and projection*. DHd 2020, Paderborn (poster). doi.org/10.5281/zenodo.4621966

Peer Reviewed Encyclopedia Articles

Dominik Bachmann[1], Maximilian Noichl[1], Leendert van Maanen, Dominik Klein (2025). Exploring complex emergent phenomena with agent-based modeling. Reference Module in Social Sciences, Elsevier doi.org/10.1016/B978-0-443-26629-4.00107-6

Book Reviews

Maximilian Noichl (forthcoming). Review: The Dynamics of Science. Journal for General Philosophy of Science

[1] Equal contribution

Talks & Presentations

Invited talks

Uncovering the general structure of model transfer between sciences (2026). HAI101: Human x Artificial Intelligence lecture series, CPNSS, London School of Economics, London

The Equality Effect in Empirically Informed Networks of Science (2026) [with Ignacio Quintana and Hein Duijf]. Model Transfer in Science: Work-in-Progress Sessions, Leibniz University Hannover (invited by Catherine Herfeld), Hannover, 26 June 2026

Introducing OpenAlex Mapper / OA Atlas (work in progress) (2026). Philosophy of Science Journal Club, Düsseldorf (invited by Chiara Lisciandra)

Social Science in Latent Space (2026). Workshop on AI in Interpretative Qualitative Work, Aalto University, Espoo, 22 May 2026

Social Science in Latent Space (2025). Workshop at the Max Planck Institute for Evolutionary Anthropology, Leipzig, 28 November 2025

Towards Empirical Robustness in Network Epistemology (2024) [with Ignacio Quintana and Hein Duijf]. Pittsburgh Formal Epistemology Workshop-series, Pittsburgh

On Virtues in Dimensionality Reduction (2024). Schloss Dagstuhl, Seminar on Low-Dimensional Embeddings of High-Dimensional Data (*published seminar summary*)

PhilroBERTa: Ein multilinguales Sprachmodell zur Beantwortung philosophiehistorischer Fragestellungen (2023) [with Lukas Panzer]. *Leipzig*, Kolloquium der Forschungsgruppe Computational Humanities

Modeling Multilingual Philosophies (2022). *Berlin*, Kolloquium: Phänomenologie der Digital Humanities

Presentations

Towards AI generated Philosophy through Autoformalization (2026). 2nd International Conference on AI for Science (AI4Sci 2026), Mainz

Agentic LLMs for Argument Mining in Philosophical Texts (2026) [with Jan Broersen]. Logics and Argumentation for New-Generation AI (LNGAI 2026), CSIC, Barcelona

Comment on Kevin Zollman's "Scientific Progress Through Bias" (2026). Wittgenstein Lectures, University of Bayreuth

Agentic LLMs for Argument Mining in Philosophical Texts (2026) [with Jan Broersen]. Workshop on Symbolic and Neuro-Symbolic AI: Reasoning and Learning, Utrecht University

The Equality Effect in Empirically Informed Networks of Science (2026). Computational Social Philosophy Seminars (CSPS), online

The Dialogue between Reason and Intuition in Contemporary Philosophy (2026) [with Simon DeDeo]. Digital Humanities in German-speaking countries (DHD), University of Vienna, Vienna

Belief Perseverance in Science: Who keeps citing retracted papers? (2025) [with Samuli Reijula; presented by Samuli Reijula]. 11th International Conference on Computational Social Science (IC2S2), Norrköping

Belief Perseverance in Science: Who keeps citing retracted papers? (2025) [with Samuli Reijula; presented by Samuli Reijula]. International Conference on the Science of Science and Innovation (ICSSI), Copenhagen

Introducing OpenAlex Mapper (2025) [with Andrea Loettgers]. Large Language Models for the History, Philosophy, and Sociology of Science (Workshop), Berlin

Towards Empirical Robustness in Network Epistemology (2025) [with Ignacio Quintana and Hein Duijf]. Formal Models of Scientific Inquiry Workshop, Bochum

The topology of philosophical position-taking (2024). DGPhil, Münster

On Epistemic Virtues in Unsupervised Learning (2024). PhilML, Tübingen

Mapping the Practical Turn: A Digital Pre-History of the Philosophy of Mathematical Practice (2024) [with Gareth Pearce and Charles Pence]. Quantitative Studies of Philosophy Conference, Tilburg

Mapping the Practical Turn: A Digital Pre-History of the Philosophy of Mathematical Practice (2024) [with Gareth Pearce and Charles Pence; presented by Gareth Pearce]. HOPOS, Vienna

All of Academic Philosophy, Everywhere, at Once: Or How to Model the Analytic-Continental Divide? (2024). Lunch Lecture, Utrecht University

The Influence of Informational Cascades in the Emergence of Political Revolutions (2023) [with Dominik Klein and Johannes Marx]. Analytical Political Theory Group Annual Meeting, Hamburg, 9 June 2023

A Computational Complement to Case Studies (2023). *Toronto*, Big Data & HPS 2023

Modeling Team-Reasoning: From Social Interaction To Proto-Collective Actors (2023) [with Johannes Marx]. *Bochum*, Workshop on Agent-Based Models of Epistemic Communities

The influence of informational cascades on the emergence of political revolutions (2023) [with Johannes Marx and Dominik Klein]. Bochum, Workshop on Computational Models in Social Epistemology

Specious Art by Alien Wizards – The Emergence of Epistemic Norms Surrounding Dimensionality Reduction (2022). *Tübingen*, PhilML 2022, Graduate Workshop

Scientific collaboration as unreliable team interaction (2022). *Helsinki*, Institutional Epistemology

Team reasoning in complex social settings (2022) [with Johannes Marx]. *Oldenburg*, Arbeitskreis für Handlungs- und Entscheidungstheorie (AkHet)

Simple Teams: A Framework for Simulating Team Reasoning (2022). *Bamberg*, Workshop on Team Reasoning and Collective Agency (own Organization)

How to model autonomous collective agents: a primer (2021) [with Leyla Ade]. *Bamberg*, Anniversary Conference of the Bamberg Graduate School of Social Sciences

A computational approach to the philosophical discussion of model transfer (2021) [with Andrea Loettgers]. *Torino*, Conference of the European Philosophy of Science Association, EPSA

Quantifying the Analytic/Continental Divide (2021). *Vienna*, SSHAP: Annual Conference of the Society for the Study of the History of Analytical Philosophy

A computational analysis of interdisciplinary model template transfer (2021) [with Andrea Loettgers]. *Louvain*, Digital Studies of Digital Science, DS^2

Tracing model templates through computational methods (2021). *Vienna – Virginia*, Workshop: Transdisciplinary Model Transfer and its Interfaces

Topological Machine-Learning for Intellectual History (2020). *Bochum*, Philosophical Colloquium

The analytic-continental divide is small but stable. (2018). *Munich*, Conference for Computational Modeling in Philosophy (CMP)

Teaching

Semester-long Courses

Philosophy of AI at Utrecht University, 2026

Philosophy of AI at Utrecht University, 2025

Philosophy of Big Data at the University of Vienna, 2023, co-taught with Tarja Knuuttila and Andrea Loettgers

Hands-on Introductory Course in Network Science, co-taught with Daniel Mayerhoffer (University of Amsterdam), at the University of Bamberg, Summer Term 2023

Introduction to Agent-Based Modeling, co-taught with Johannes Marx, at the University of Bamberg, Summer Term 2021

Workshops and Guest Lectures

Invited full-day workshop: *The Philosopher's Guide to Language Modeling*, with Eugenio Petrovich, Ruhr University Bochum, 2026

Invited guest lecture: *The Philosopher's Guide to Language Modeling*, Leibniz University Hannover, 2026

Workshop: *AI Tools for Research*, Bamberg Graduate School of Social Sciences (BAGSS), 18–19 March 2026

Guest lecture: *The Philosopher's Guide to Language Modeling*, Leibniz University Hannover, 2025

Service, Organization & other Activities

Organization

Data-Driven Methods for Philosophy – OZSW Autumn School, Utrecht University, 2025 (with Gregor Bös)

Diversity and equality in epistemic networks of science – Symposium at the European Philosophy of Science Association (EPSA) 2025, Groningen (with Hein Duijf)

Data-Driven Methods for Philosophy – Satellite Workshop at the conference of the German Association for Analytic Philosophy (GAP) 2025, Düsseldorf (with Gregor Bös)

Framing Digital Philosophy of Science – Symposium at the European Philosophy of Science Association (EPSA) 2023, Belgrade

Workshop on Team Reasoning and Collective Agency 2022, Bamberg (with Leyla Ade)

Summer School: Models and Methods – Current Issues in the Philosophy of Maths & Science (with members of the VDP), University of Vienna, 11th – 15th July 2022

Further education

Graduate Workshop in Computational Social Science with John Miller & Scott Page, Santa Fe Institute, Santa Fe, New Mexico, 2026

Advanced Graduate Workshop in Computational Social Science with John Miller & Scott Page, Santa Fe Institute, Santa Fe, New Mexico, 2024

Graduate Workshop in Computational Social Science with John Miller & Scott Page, Santa Fe Institute, Santa Fe, New Mexico, 2023

Spring School on the Evolution of Social Complexity, Complexity Science Hub, Vienna, 11th–17th May 2022

Peer-Review

Synthese • Philosophers' Imprint • Asian Journal of Philosophy • Philosophy of Science Journal for General Philosophy of Science • DHd

Other

Representative of the German Philosophical Association (DGPHIL) in the Text+ consortium (Task Area Collections), part of the German National Research Data Infrastructure (NFDI).

Awards and Grants

2026 **Creative Process Award**, Aberrant Creativity, Texas A&M University, for *The Thousand Names of Macskusz* (with Veronika Szücs).

2026 **Best AI Artwork Award**, 2nd AIART Gallery, AIART 2026 / IEEE ICME 2026, for *The Thousand Names of Macskusz* (with Veronika Szücs).

2024 **Runner-up Prize**, *Automating Wisdom* Essay Competition, for *The purpose of philosophical AI will be: To orient ourselves in thinking*.

2023 **Internal Research Grant**, University of Bamberg, for exploring GPT-4 applications in philosophy.

2020 **Travel Stipend**, DHd 2020, Paderborn (DHd and CLARIAH-DE).

Methods and Skills

Text analysis and language models: Analysis of large multilingual corpora; transformer fine-tuning; LLM agents for text mining.

Computational modeling: Social simulations; network and citation analysis; cluster analysis; science mapping.

Programming and visualization: Python, R, JavaScript/D3.js; interactive research visualizations.

Reproducible analysis: Jupyter, R Markdown, Pandoc, LaTeX.

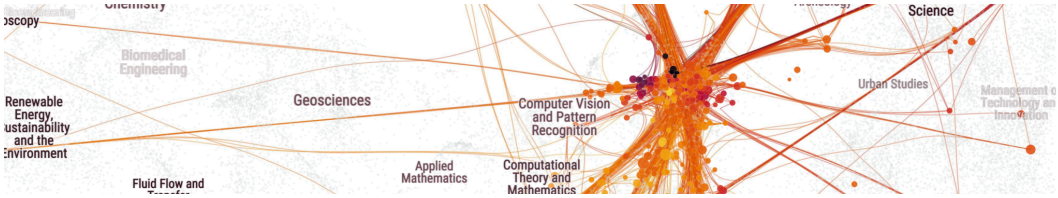
Survey design: SoSci-Survey, Survey.js.

Languages: German (native), English (C2), Italian (B2), French (B2); Latinum.

Selected Projects

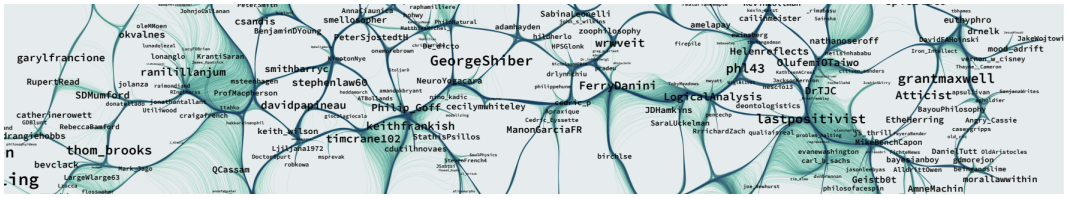
2026 OA Atlas

An interactive tool for mapping scientific literature and citation relationships using OpenAlex. – Explore!



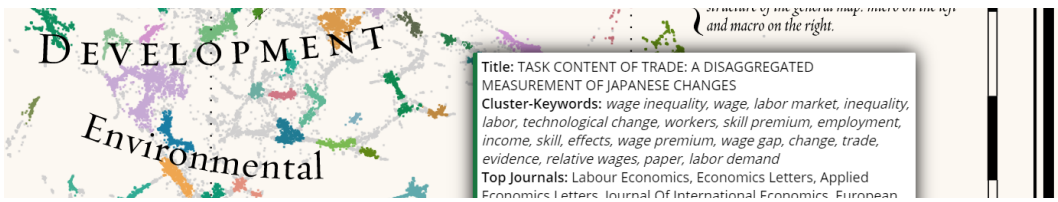
2021 Philotwitter

A map of Twitter accounts by philosophers. – Explore!

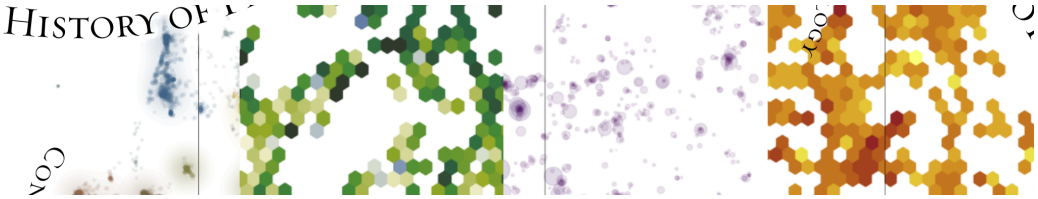


2019 The Structure of recent Economics

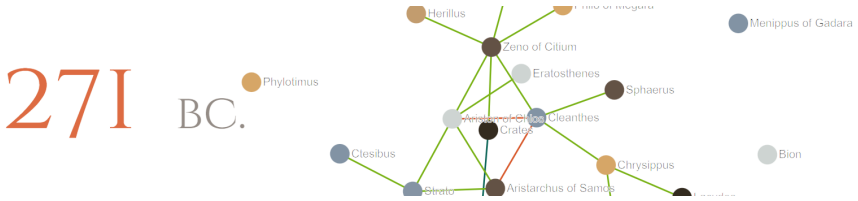
In cooperation with Economist Filippo D'Arcangelo: Visualization of the disciplinary structure of economics, based on nearly 200,000 articles – Explore!



2018 The Structure of recent Philosophy
Visualization of the citation space of more than 60,000 papers in philosophy, using UMAP and HDB-SCAN (with Python and R) – Explore!



2017 History of Ancient Greek Philosophy
An interactive visualization of the personal relationships between the Greek philosophers of antiquity, based on Randall Collins' The Sociology of Philosophies – Explore!



Selected Art Exhibitions

2026 The Thousand Names of Macskusz
with Veronika Szücs; CVPR 2026 Art Gallery
Denver, Colorado, USA, 5–7 June 2026

2026 The Thousand Names of Macskusz
with Veronika Szücs; 2nd AIART Gallery, AIART 2026 / IEEE ICME 2026
Bangkok, Thailand, 5–8 July 2026

2026 The Thousand Names of Macskusz
with Veronika Szücs; Aberrant Creativity, Texas A&M University
Arts Center of Brazos Valley, College Station, Texas, USA, 25 August–17 October 2026

2025–2026 Dierenleven
with Veronika Szücs; Negotiated Intelligence, The Wrong Biennale, 7th Edition
Curated by Chun Wang; online pavilion, 1 November 2025–31 March 2026

Potential References

Prof. Kevin Zollman
Carnegie Mellon University
Pittsburgh, USA

Prof. Simon DeDeo
Carnegie Mellon University
Pittsburgh, USA

Prof. Christophe Malaterre
Université du Québec
Montréal, Canada

Prof. Daniel Cohnitz
Utrecht University
Utrecht, The Netherlands

Prof. Jan Broersen
Utrecht University
Utrecht, The Netherlands