

# Timo Freiesleben

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## Curriculum Vitae

### Personal Information

Nationality	German
Email	timo.freiesleben@campus.lmu.de
Address	Research Center for Neurophilosophy and Ethics of Neurosciences Postfach 72 Geschwister-Scholl-Platz 1 80539 München
Areas of Specialization	Explainable Artificial Intelligence, Causality & Explanation, Decision Theory
Areas of Competence	(Bounded) Rationality, Dual-Process Theories, Probability Theory, Mathematical Logic, Deep Learning, Philosophy & Ethics of AI, Game Theory, Algebraic Number Theory

### Education

10/2019–Now	<b>Ph.D. in Systemic Neurosciences</b> , <i>Graduate School of Systemic Neurosciences München (LMU)</i> , Project on Counterfactual Explanations in XAI Inspired by Human Information Processing. Supervised by Prof. Dr. Stephan Hartmann, Prof. Dr. Agnieszka Wykowska, Dr. Álvaro Tejero Cantero, Prof. Dr. Paul Taylor
10/2018–09/2019	<b>M.Sc. in Computer Science</b> , <i>Ludwig-Maximilians-Universität München (LMU)</i> , Taken courses on Deep Learning & AI. Without Graduation
10/2016–09/2018	<b>M.A. in Logic and Philosophy of Science</b> , <i>Munich Center for Mathematical Philosophy (MCMP), Ludwig-Maximilians-Universität München (LMU)</i> , <i>Overall Grade 1.11</i> , Thesis on <b>Incorporating Intuitions into Decision Making Rationally</b> . Supervised by Dr. Rush Stewart and Prof. Dr. Hannes Leitgeb
10/2012–09/2016	<b>B.Sc. in Mathematics</b> , <i>Eberhard Karls Universität Tübingen</i> , <i>Overall Grade 1.3</i> , Thesis on <b>Ramification and Arithmetic Schemes</b> . Supervised by Prof. Dr. Jürgen Hausen
08/2015–07/2016	<b>Erasmus Exchange Year</b> , <i>University of Oslo</i> , With a focus on Mathematical Logic and Computability Theory.

- 09/2010–07/2012 **Abitur**, in the *Wirtschaftsoberschule at the KS-Künzelsau*.
- 09/2008–07/2010 **Advanced Technical College Entrance Qualification in Business Informatics**, *GvSS Heilbronn*.

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## Work Experience

- 10/2019–Now **Teaching Assistant**, *LMU Munich Center for Mathematical Philosophy*, München.  
Tasks: Designing and correcting assignments/exams, giving tutorials, contact partner for student matters.
- Winter Term 2019/2020 **Central Topics in Philosophy of Science**, *LMU*, Lead by Dr. Jürgen Landes.
- 03/2019–09/2019 **Software Developer (working student)**, *Zentrum Digitalisierung.Bayern*, Garching,  
Project: Working on the national research project MEMAP which contributes to the German energy transition strategy. MEMAP (Multi-Energy Management and Aggregation-Platform) optimally matches the local electricity- and heat demand/production for districts.  
Tasks: My work focused mainly on the software development of the platform in the programming language Java. In particular, I had the following tasks:
  - programming the OPC-UA interfaces for handling live-data
  - developing a Jetty-websocket and a website for online access to the platform (HTML, Javascript, etc.)
  - configuration of server data for providing optimization resultsI took part in the work-team modelling and optimization and I was ZD.B contact partner for the work-team platform. Additionally, I contributed to the planning and realization of public events of the ZD.B. platform energy.
- 10/2016–03/2019 **Teaching Assistant**, *LMU Department of Mathematics*, München.  
Tasks: Correcting assignments/exams and giving tutorials, supervision for exams, contact partner for student matters.
- Winter Term 2018/2019 **Linear Algebra 1**, *LMU*, Lead by Dr. Peter Philip.
- Summer Term 2018 **Linear Algebra 2**, *LMU*, Lead by Prof. Dr. Fabien Morel.
- Winter Term 2017/2018 **Linear Algebra 1**, *LMU*, Lead by Prof. Dr. Fabien Morel.
- Summer Term 2017 **Topology and multivariable differential calculus**, *LMU*, Lead by Prof. Dr. Franz Merkl.
- Winter Term 2016/2017 **Analysis 1**, *LMU*, Lead by Prof. Dr. Franz Merkl.

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## Scholarships & Prizes

- 10/2019–09/2022 **Graduate School of Systemic Neuroscience Neurophilosophy Stipend**, *Ph.D. research stipend*.

- 25/07/2019 **Mobility Innovation Competition @ Campus**, *3rd prize in Startup competition*,  
Team: DeepGuardian.  
Deep-learning-software equipped camera board for violence detection that respects data privacy.
- 07/2018 **Oskar-Karl-Forster-Scholarship**, *book stipend*.
- 06/2012 **School-Prize**, *best Abitur*.

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## Conferences & Workshops

- 14/10/2018 - **Workshop/Seminar on Ethics of AI**, *Venice (VIU)*.  
20/10/2018
- 27/07/2018 - **Workshop on Decision Theory & the Future of Artificial Intelligence**,  
28/07/2018 *München (Jointly organized by the MCMP, the CFI, and the CSER)*.
- 22/06/2017 - **Masterclass with Graham Priest on Paraconsistent Logic**, *München (LMU)*.  
26/05/2017

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## Reviewing

Journals **Synthese**.

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## Skills

- Languages German (native speaker), English (fluent), Spanish (very good command), Norwegian (very good command).
- Computer Skills MATLAB/Octave (++), Java (++), NetLogo (+), Python (+), JavaScript (++), HTML (++), PHP (+), WebPPL (+),  $\LaTeX$ (+++), SQL (++).

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## Hobbies and Non-Academic Interests

- Reading classical literature and existentialist philosophy
- Modern physics, in particular astronomy and string theory
- Playing all types of board games especially the ones focusing on strategy or on creativity and associations
- Current political and economic developments
- Hiking in Norway, Colombia, the Alps and more to come
- Passionate hobby football player with a Schrödinger's cat relationship status to the football team I am/was a fan of

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## References

### **Prof. Dr. Stephan Hartmann.**

Chair and Head of the Munich Center for Mathematical Philosophy  
Department of Philosophy, Philosophy of Science and the Study of Religion  
Ludwig-Maximilians-Universität München  
Contact no: + 49 (0) 89 / 2180 - 3320  
Email: S.Hartmann@lmu.de

### **Prof. Dr. Dr. Hannes Leitgeb.**

Chair and Head of the Munich Center for Mathematical Philosophy  
Department of Philosophy, Philosophy of Science and the Study of Religion  
Ludwig-Maximilians-Universität München  
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### **Dr. Rush Stewart.**

Assistant Professor  
Department of Philosophy, Philosophy of Science and the Study of Religion  
Ludwig-Maximilians-Universität München  
Email: Rush.Stewart@lrz.uni-muenchen.de