

EDUCATION	Ph. D. Computational Cognitive Science and Machine Learning MPI for Biological Cybernetics and Helmholtz Munich <i>Supervisor: Dr. Eric Schulz</i>	06.2023 –
	M. Sc. Neural and Behavioral Science , University of Tübingen <i>Thesis: The acquisition of physical knowledge in neural networks</i> <i>Supervisors: Dr. Marcel Binz & Dr. Eric Schulz, MPI for Biological Cybernetics</i>	2019 – 2023
	B. Sc. Psychology , University of Osnabrück <i>Thesis: The role of heartbeat during fast sensorimotor transformations</i> <i>Supervisors: Dr. Sven Ohl & Prof. Martin Rolfs, Humboldt-Universität zu Berlin</i>	2016 – 2019
RESEARCH	Stanford University , Prof. Tobias Gerstenberg <i>Visual cognition in humans</i>	02.26 – 04.26
INTERNSHIPS	University of Tübingen , Prof. Felix Wichmann <i>Error consistency in humans and neural networks</i>	11.20 – 02.21
	University of Tübingen , Prof. Philipp Berens <i>Model comparisons in approximate Bayesian computation</i>	09.20 – 11.20
	Berlin School of Mind and Brain , Mind Brain Body Institute <i>Influence of cardiac cycle activity on perceived object distance</i>	11.18 – 12.18
	Humboldt-Universität zu Berlin , Dr. Sven Ohl <i>Influence of cardiac cycle activity on saccadic eye movements</i>	08.18 – 09.18
PROFESSIONAL	Student research assistant , MPI for Biological Cybernetics <i>Computational Principles of Intelligence, Dr. Eric Schulz</i>	01.22 – 01.23
EXPERIENCE	Student research assistant , University of Tübingen <i>Neural Information Processing, Prof. Felix Wichmann</i>	04.21 – 12.21
	<i>Data Science for Vision Research, Prof. Philipp Berens</i>	03.20 – 08.20
	Student research assistant , University of Osnabrück <i>Statistics and Methodology, Prof. Thomas Staufenbiel</i>	04.18 – 09.19
	Teaching assistant , University of Osnabrück <i>Statistics I & II</i>	10.18 – 08.19
	<i>Test theory</i>	04.18 – 08.18
	<i>Research methods</i>	10.17 – 03.18
EXTERNAL FUNDING	International Research Fellowship for Computer Scientists (IFI) , DAAD <i>Research internship at Stanford University, Prof. Tobias Gerstenberg</i>	

SUBMITTED	Can vision language models learn intuitive physics from interaction? L. M. Schulze Buschoff* , K. Voudouris*, C. Demircan, E. Schulz <i>Under review at ICML 2026</i>
PRE-PRINTS	Next state prediction gives rise to entangled, yet compositional representations of objects T. Saanum, L. M. Schulze Buschoff , P. Dayan, E. Schulz <i>arXiv</i>
PUBLICATIONS	A foundation model to predict and capture human cognition M. Binz, ..., L. M. Schulze Buschoff , ..., E. Schulz <i>Nature (2025)</i>
	Testing the Limits of Fine-Tuning for Improving Visual Cognition in Vision Language Models L. M. Schulze Buschoff* , K. Voudouris*, E. Akata, M. Bethge, J. B. Tenenbaum, E. Schulz <i>International Conference on Machine Learning (ICML 2025)</i>
	metabench – A Sparse Benchmark to Measure General Ability in Large Language Models A. Kipnis, K. Voudouris, L. M. Schulze Buschoff , E. Schulz <i>International Conference on Learning Representations (ICLR 2025)</i>
	Visual cognition in multimodal large language models L. M. Schulze Buschoff* , E. Akata*, M. Bethge, E. Schulz <i>Nature Machine Intelligence (2025)</i>
	The Acquisition of Physical Knowledge in Generative Neural Networks L. M. Schulze Buschoff , E. Schulz, M. Binz <i>International Conference on Machine Learning (ICML 2023)</i>
	Trivial or Impossible—dichotomous data difficulty masks model differences (on ImageNet and beyond) K. Meding*, L. M. Schulze Buschoff* , R. Geirhos, F. A. Wichmann <i>International Conference on Learning Representations (ICLR 2022)</i>
WORKSHOP	ImageNet suffers from dichotomous data difficulty
PUBLICATIONS	K. Meding*, L. M. Schulze Buschoff* , R. Geirhos, F. A. Wichmann <i>ImageNet: past, present, and future workshop (NeurIPS 2021 workshop)</i>
REVIEWING ACTIVITY	Conferences ICLR ICML CogSci Re-Align workshop at ICLR World models workshop at ICML Behavioral ML workshop at NeurIPS Journals Computational Brain & Behavior