Curriculum Vitae - Korbinian Pöppel

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Education

2012 – 2015	Bachelor Physics, LMU Munich grade: 1.02, 'best of semester'
2015 – 2018	Elite-Master Theoretical and Mathematical Physics, LMU/TUM, grade: 1.1, 'with great distinction' Master Physics, LMU Munich, grade: 1.1
2019 – 2023	Advanced Studies in Informatics (TU Munich) – grade: 1.2
2023 –	ELLIS PhD Student JKU Linz – Artificial Intelligence

Programming skills / software tools

Python (since 2014, up to 50k loc)
CUDA (since 2023, up to 5k loc)
C/C++ (since 2007, up to 20k loc)
HTML / CSS / JavaScript, Java, Rust, LateX, Bash, git, make, CMake

Scholarship

2014 – 2018	Cusanuswerk

Positions

2016	Research Assistant, LS Frey LMU Munich – Evolutionary Systems
2018	Research Assistant, LS Frey LMU Munich – Pattern Formation
2018 –	Self-Employment in Software Development
2018 – 2019	PhD Student at MPI-IS Stuttgart (Active Acoustic Holography) Advisor: Prof. Peer Fischer – resignation on own decision Associate of Center of Learning Systems
2020 – 2021	Thesis: „Explainable NLP with Knowledge Graphs“ at inovex GmbH
2020 – 2021	Co-Founder of Norona GbR (Making Rapid tests visible)
2021 – 2022	Full-Time Machine Learning Engineer at docsy GmbH
2023	Full-Time Research Engineer at IARAI GmbH (then transition to JKU)
2023 –	Full-Time Research Assistant at JKU Linz Advisor: Prof. Sepp Hochreiter
2024 –	Co-Founder of OpenPV GbR
2024 –	Part-Time PhD Researcher NXAI GmbH

Publications

Beck, M. and **Pöppel, K.** and Lippe, P., Hochreiter, S. (2025). Tiled Flash Linear Attention: More Efficient Linear {RNN} and xLSTM Kernels. ICLR 2025 First Workshop on Open Science for Foundation Models Retrieved from https://openreview.net/forum?id=27Wtx3jTyV

Beck, M.*, **Pöppel, K.***, Lippe, P.* Kurle, R., Blies, P. M., Klambauer, G., Böck, S. and Hochreiter, S. (2025). xLSTM 7B: A Recurrent LLM for Fast and Efficient Inference. ICLR 2025 Workshop on Foundation Models in the Wild Retrieved from https://openreview.net/forum?id=cO9Vy9Ty3O

Pöppel, K., Beck, M., Hochreiter S. (2025). FlashRNN: I/O-Aware Optimization of Traditional RNNs on Modern Hardware. The Thirteenth International Conference on Learning Representations. Retrieved from https://openreview.net/forum?id=l0ZzTvPfTw

Schmied, T., Adler, T., Patil, V., Beck, M., **Pöppel, K.**, Brandstetter, J., Klambauer, G., Pascanu, R., & Hochreiter, S. (2024). A large recurrent action model: xLSTM enables fast inference for robotics tasks. NeurIPS 2024 Workshop on Open-World Agents Retrieved from https://openreview.net/forum?id=rAOIQHP7j1

Alkin, B., Beck, M., **Pöppel, K.**, Hochreiter, S., & Brandstetter, J. (2024). Vision-LSTM: xLSTM as generic vision backbone. The Thirteenth International Conference on Learning Representations. Retrieved from https://openreview.net/forum?id=SiH7DwNKZZ

Beck, M.*, **Pöppel, K.***, Spanring, M., Auer, A., Prudnikova, O., Kopp, M. K., Klambauer, G., Brandstetter, J., & Hochreiter, S. (2024). xLSTM: Extended long short-term memory. *The Thirty-Eighth Annual Conference on Neural Information Processing Systems*. Retrieved from https://openreview.net/forum?id=ARAxPPIAhq

Ma, Z., Holle, A. W., Melde, K., Qiu, T., **Pöppel, K.**, Kadiri, V. M., & Fischer, P. (2020). Acoustic holographic cell patterning in a biocompatible hydrogel. *Advanced Materials, 32*(4), 1904181. https://doi.org/10.1002/adma.201904181

*equal contribution