

## EDUCATION

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- **Johannes Kepler Universität Linz** Linz, Austria  
*Ph.D. student in Reinforcement Learning advised by Prof. Sepp Hochreiter* Sep. 2019 – Nov. 2024
- **Universita Della Svizzera Italiana** Lugano, Switzerland  
*Master of Science in Artificial Intelligence (9.00/10)* 2017 – 2019
- **ETH Zurich** Zurich, Switzerland  
*Exchange Semester and Master Thesis* 2018 – 2019
- **University of Mumbai** Mumbai, India  
*Bachelor of Engineering in Electronics (First Class)* 2011 – 2015

## RESEARCH EXPERIENCE

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- **Amazon** Berlin, Germany  
*Applied Scientist II - RUFUS* Nov 2024 - Ongoing
- **Amazon** Seattle, USA  
*Applied Science Intern - AGI* Sep 2023 - Dec 2023
- **Amazon** Seattle, USA  
*Applied Science Intern - Alexa AI* Jan 2022 - May 2022
- **Institute for Machine Learning, Johannes Kepler Universität Linz** Austria  
*Research Assistant - Advised by Prof. Sepp Hochreiter* Sep 2019 - Nov 2024
- **Data Analytics Group, ETH Zurich** Zurich, Switzerland  
*Master Thesis Student - Advised by Dr. Aurelien Lucchi* Oct 2018 - Sep 2019
- **Institute for Machine Learning, Johannes Kepler Universität Linz** Austria  
*Visiting Student Researcher - Advised by Prof. Sepp Hochreiter* Jun 2018 - Nov 2018
- **University of Mumbai** Mumbai, India  
*Student Researcher - Advised by Prof. Sandeep Mishra* May 2014 - May 2015

## RESEARCH PAPERS

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- **A Large Recurrent Action Model: xLSTM enables Fast Inference for Robotics Tasks**  
*T. Schmied, T. Adler, V. Patil, M. Beck, K. Pppel, J. Brandstetter, G. Klambauer, R. Pascanu, S. Hochreiter (ICML 2025)*
- **Retrieval-Augmented Decition Transformer: External Memory for In-Context RL**  
*T. Schmied, F. Paischer, V. Patil, M. Hofmarcher, R. Pascanu, S. Hochreiter (Under Review)*
- **Simplified Priors for Object-Centric Learning**  
*V. Patil, A. Radler, D. Klotz, S. Hochreiter (COLLAS 2024)*
- **Contrastive Abstraction for Reinforcement Learning**  
*V. Patil, E. Rumetshofer, M. Hofmarcher, S. Hochreiter (NeuRIPS, Gen Plan Workshop 2023)*
- **MyoChallenge 2022: Learning contact-rich manipulation using a musculoskeletal hand**  
*V. Caggiano,..., V. Patil,..., Vikash Kumar (NeuRIPS 2022)*
- **InfODist: Online distillation with Informative rewards improves generalization**  
*Siripurapu, Patil, Schweighofer, Dinu, Schmied, Holzleitner, Eghbal-Zadeh, Kopp, Hochreiter (NeuRIPS, DRL Workshop 2022)*
- **Align-RUDDER: Learning From Few Demonstrations**  
*V. Patil, M. Hofmarcher, M. Dinu, M. Dorfer, P. Blies, J. Brandstetter, J. Arjona, S. Hochreiter (ICML 2022)*

- **History Compression via Language Models in Reinforcement Learning**  
*F. Paischer, T. Adler, V. Patil, A. Bitto, S. Lehner, H. Eghbal-Zadeh, S. Hochreiter (ICML 2022)*
- **A Globally Convergent Evolutionary Strategy for Stochastic Constrained Optimization**  
*V. Patil\*, Youssef Diouane\*, Aurelien Lucchi\* (AISTATS 2022)*
- **A Dataset Perspective on Offline Reinforcement Learning**  
*K. Schweighofer, A. Radler, M. Dinu, M. Hofmarcher, V. Patil, A. Bitto, H. Zadeh, S. Hochreiter (COLLAS 2022)*
- **XAI and Strategy Extraction via Reward Redistribution**  
*M. Hofmarcher, M. Dinu, V. Patil, M. Dorfer, P. Blies, J. Brandstetter, J. Arjona, S. Hochreiter (XXAI - Book Chapter)*
- **Reactive Exploration to Cope with Non-Stationarity in Lifelong Reinforcement Learning**  
*C. Steinparz, T. Schmied, F. Paischer, M. Dinu, V. Patil, A. Bitto, H. Zadeh, S. Hochreiter (COLLAS 2022)*
- **Understanding the effect of Dataset Composition on Offline Reinforcement Learning**  
*K. Schweighofer, M. Dinu, M. Hofmarcher, A. Bitto, P. Renz, V. Patil, S. Hochreiter (NeurIPS, DRL workshop 2021)*
- **Modern Hopfield Networks for Return Decomposition for Delayed Rewards**  
*M. Widirich, M. Hofmarcher, A. Bitto, V. Patil, S. Hochreiter (NeurIPS, DRL workshop 2021)*
- **Guided Search for Maximum Entropy Reinforcement Learning**  
*V. Patil*

## RESEARCH COMPETITIONS

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- **MyoChallenge at Neurips 2022**  
*Co-Winners of the MyoChallenge 2022 at Neurips 2022* Aug 2022 - Nov 2022
- **Robocon** Mumbai, India  
*Programmer/Team Leader - Built various kinds of robots* Dec 2013 - Mar 2015

## APPLIED ML EXPERIENCE

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- **Fractal.ai** Mumbai, India  
*Associate (Data Science)* Jan 2016 - Jul 2017

## OTHER

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- **Program Chair**
- **AAAI (2025)**
- **Reviewing Conferences**
- *NeurIPS (2024, 2023, 2022, 2021, 2020), ICML (2024, 2023, 2022, 2021, 2020), ICLR (2025, 2022, 2021, 2020)*
- **Deep Reinforcement Learning** Austria  
*Teaching Assistant - Johannes Kepler Universität Linz* 2024, 2023, 2021, 2020 Summer Semester

## TECHNICAL SKILLS

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- **Languages:** Python, C++, MATLAB, R, HTML, CSS
- **Frameworks:** Pytorch, Tensorflow

## SCHOLARSHIPS

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- **LIT AI Lab PhD Scholarship** 2019 – 2024
- **Tution Fee Waiver Scholarship, Govt. of India** 2011 – 2015  
*Awarded to top 5% of the class.*

## LINKS

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- Github, Website, Google Scholar, Twitter