

Michael Chatiskatzi

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in michael-chatiskatzi

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Education

- 10/2019 – 04/2024 **Master of Science**, *Karlsruhe Institute of Technology*, Karlsruhe
Computer Science
- 10/2014 – 09/2019 **Bachelor of Science**, *Karlsruhe Institute of Technology*, Karlsruhe
Computer Science, Final grade: 3,2
Thesis: Koevolution von Metamodellvarianten und deren Instanzen (Co-evolution of Metamodel Variants and their Instances)

Work

- 07/2022 – 03/2023 **Tutor**, *Karlsruhe Institute of Technology*, Karlsruhe
- Co-supervision of the lectures *Cognitive Systems* and *Introduction to Artificial Intelligence*
 - Correction of exercise sheets, Jupyter notebook codes and exams
- 12/2017 – 08/2021 **Java Software Developer**, *Vector Informatik*, Karlsruhe
- Development of a system for recording and storing metamodel deltas and replaying them on another metamodel variant
 - Further development of an internal system for rapid test feedback after code changes

Projects

- 10/2022 – 03/2023 **Tissue Classifier**, *Karlsruhe Institute of Technology*, Karlsruhe
- Development of machine learning algorithms for the prediction of material / tissue types
 - Implementation of ROS2 nodes for data processing and storage
 - Performing tests on various objects / tissues
- 01/2023 – 02/2023 **KaraokAI**, *Karlsruhe Institute of Technology*, Karlsruhe
- Development of a comprehensive audio processing solution, including audio extraction, forced alignment, genre classification and website creation
 - Implementation of forced alignment with a pre-trained model
 - Training of the genre classification model on song lyrics
- 05/2022 – 09/2022 **Using Metaworld in Imitation Learning**, *Karlsruhe Institute of Technology*, Karlsruhe
- Reconstruction of several tasks from Metaworld into the internal simulation framework of the institute and further development of teleoperation
 - Providing supervised learning algorithms to learn a model from demonstrations
- 11/2016 – 03/2017 **Robot Health Monitoring**, *Karlsruhe Institute of Technology*, Karlsruhe
- Development of a system for online sensor anomaly detection for humanoid robots and detection of incorrectly provided sensor values
 - Utilization of machine learning algorithms for anomaly detection

Programming Languages and Technologies

Languages: Python, Java, C, C++, SQL

Technologies: PyCharm, PyTorch, TensorFlow, NumPy, Pandas, Git, ROS2

Working knowledge of: Matlab, JupyterDash, JavaScript