

# Michael Chatiskatzi

Karlsruhe · Germany

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in michael-chatiskatzi

📀 MichaelChat

## Education

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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

## Work

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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

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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

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

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

**Working knowledge of:** Matlab, JupyterDash, JavaScript