# Michael Chatiskatzi

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#### EDUCATION

## Karlsruhe Institute of Technology

Karlsruhe, Germany

Master of Science in Computer Science

Oct. 2019 - April 2024

• Thesis: Transformer-Based Model for Non-Invasive Blood Pressure Estimation from Videos

# Karlsruhe Institute of Technology

Karlsruhe, Germany

Bachelor of Science in Computer Science

Oct. 2014 - April 2019

• Thesis: Koevolution von Metamodellvarianten und deren Instanzen (Co-evolution of Metamodel Variants and Their Instances)

#### EXPERIENCE

## Student Research Assistant

May 2024 – Oct. 2024

FZI Research Center for Information Technology

Karlsruhe, Germany

- Continuing my master's thesis research on the development of Transformer-based models for continuous and non-invasive blood pressure monitoring
- $\bullet \ \ \text{Implementing and optimizing Transformer-based algorithms for accurate blood pressure monitoring}$
- Conducting experiments and analyzing data to validate the effectiveness of the proposed methods

## Student Teaching Assistant

July 2022 – Mar. 2023

Karlsruhe Institute of Technology

Karlsruhe, Germany

- Co-supervised the lectures Cognitive Systems and Introduction to Artificial Intelligence
- Reviewed exercise sheets, Jupyter notebook codes and exams

# Java Software Developer

Dec. 2017 – Aug. 2021

Vector Informatik

Karlsruhe, Germany

- Developed 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

Tissue Classifier | Python, pandas, NumPy, ROS/ROS2

Oct. 2022 - Mar. 2023

- Developed machine learning algorithms for the prediction of material/tissue types
- Implemented ROS2 nodes for data processing and storage
- Performed online tests on various objects/tissues

KaraokAI | Python, PyTorch, Jupyter Dash

Jan. 2023 – Feb. 2023

- Developed a comprehensive audio processing solution, including audio extraction, forced alignment, genre classification and website creation
- Implemented forced alignment with a pre-trained model
- Trained of the genre classification model on song lyrics

#### Using Metaworld in Imitation Learning

May 2022 - Sep. 2022

- Reconstructed of several tasks from Metaworld into the internal simulation framework of the institute and further development of tele-operation
- Implemented supervised learning algorithms to learn a model from demonstrations

#### Robot Health Monitoring

Nov. 2016 - Mar. 2017

- Developed a system for online sensor anomaly detection for humanoid robots and detection of incorrectly provided sensor values
- Utilized of machine learning algorithms for anomaly detection

## TECHNICAL SKILLS

Languages: Python, Java, C, C++, SQL (Postgres), MATLAB, JavaScript

Developer Tools: PyCharm, Git, VS Code, Eclipse, Visual Studio

Libraries: PyTorch, pandas, NumPy, Matplotlib, ROS/ROS2, TensorFlow