

EDUCATION	Max Planck Institute for Intelligent Systems <i>PhD Candidate</i> • Focusing on Active Exploration, Unsupervised Reinforcement Learning and Robotics <b>Started in April 2021</b>
	Technical University of Munich, Electrical Engineering and Information Technology <i>Master of Science</i> Graduated with High Distinction, GPA 4.0/4.0 (German grading system: 1.0) • Specialization in Robotics and Automation <b>2021</b>
	Technical University of Munich, Electrical Engineering and Information Technology <i>Bachelor of Science</i> Graduated with High Distinction, GPA 4.0/4.0 (German grading system: 1.0) <b>2018</b>
	Istanbul Lisesi (High School), Turkey German Abitur Diploma: 1.0, Graduated as top of my class <b>2015</b>
HONORS & AWARDS	<i>Scholarship holder of the Max Weber-Program</i> • This program aims at highly gifted students at universities in Bavaria. <b>2017 - 2021</b>
	<i>DAAD Scholarship Holder</i> • A merit-based scholarship granted for my studies in Germany. <b>2015 - 2020</b>
	<i>8th Asian Science Camp</i> • Chosen as one of the 8 representatives of Turkey at the 8th Asian Science Camp which is an event organized by Nobel laureates. <b>Aug 2014</b>
PUBLICATIONS	<b>Cansu Sancaktar</b> , Justus Piater and Georg Martius. <a href="#">Regularity as Intrinsic Reward for Free Play</a> , <b>Preprint, under review</b> .
	Bhavya Sukhija, Lenart Treven, <b>Cansu Sancaktar</b> , Sebastian Blaes, Stelian Coros and Andreas Krause. <a href="#">Optimistic Active Exploration of Dynamical Systems</a> , <b>Preprint, under review</b> .
	<b>Cansu Sancaktar</b> , Sebastian Blaes and Georg Martius. <a href="#">Curious Exploration via Structured World Models Yields Zero-Shot Object Manipulation</a> , <b>NeurIPS 2022</b> . • Also presented at the European Workshop on Reinforcement Learning 2022. • Best poster award at the IEEE RAS Technical Committee on Model-Based Optimization for Robotics poster event 2022.
	Cansu Sancaktar, Marcel van Gerven, and Pablo Lanillos. <a href="#">End-to-End Pixel-Based Deep Active Inference for Body Perception and Action</a> , 10th International Conference on Development and Learning and Epigenetic Robotics (ICDL-EpiRob), IEEE, 2020. <a href="#">Poster presentation</a>
WORK EXPERIENCE	Internship at Intel Deutschland GmbH, Munich • Computational Cost Estimation of Machine Learning Algorithms for LTE Modem Power Optimization <b>April 2017 &amp; Sep-Oct 2017</b>

Tutor for *Digital Design* at Technical University of Munich **Winter term 2016/2017 & 2017/2018**

**PROFESSIONAL ACTIVITIES** Co-organizer of the workshop [Intrinsically Motivated Open-ended Learning](#) at **NeurIPS 2023**.

Co-organizer of the competition [Real Robot Challenge III - Learning Dexterous Manipulation from Offline Data in the Real World](#) at **NeurIPS 2022**.

**OUTREACH & LEADERSHIP** Member of the coordination team of the S4 Seminar Series of the IMPRS-IS graduate program **November 2022 -**

Elected student representative of the IMPRS-IS graduate program for MPI-IS Tübingen. **October 2022 -**

Co-organizer of the *Talk & Talk* series at the Max Planck Institute for Intelligent Systems. **April 2021 - October 2022**

**THESES** Master's Thesis at the *Machine Learning in Science* lab at the University of Tübingen (previously Chair of Computational Neuroengineering at TUM) **2020**

- Thesis Title: State-Space Models for Discovering Low-Dimensional Dynamics in Neurophysiological Recordings
- Advisor: Prof. Dr. rer. nat. Jakob Macke

Bachelor's Thesis at the Chair of Methods of Signal Processing (TUM) **2018**

- Thesis Title: Long Short-Term Memory Networks as Adaptive Filters
- Advisor: Prof. Dr.-Ing. Wolfgang Utschick

**PROJECTS** Final Project in the Course *Humanoid Robotic Systems* at the Institute for Cognitive Systems (TUM) **Dec 2019 - Jan 2020**

- [Use machine learning to throw with the Aldebaran NAO robot.](#)

Final Project in the Practical Course *Biosignal Processing and Modeling* at the Institute for Cognitive Systems (TUM) **April - Jul 2019**

- Control a Zumo trackbot with EEG signals.

**SKILLS** *Programming Languages:* Python, C, C++, Matlab, Simulink

*Tools/Frameworks:* PyTorch, Tensorflow, Keras

*Robotics:* ROS, Gazebo, Arduino

*Misc:* Latex, Inkscape

*Languages:* Turkish (native), English (C2), German (C2), Korean (A1)

**RELEVANT COURSES** • Machine Learning • Robotics • Dynamic Systems and Control • Signal Processing • Stochastic Signals • Human-Machine Interaction • Computer Vision • Neuroprosthetics • Biologically-Inspired Learning for Humanoid Robots • Humanoid Robotic Systems • Pattern Recognition • Circuit Theory • Digital Design • Algorithms and Data Structures • Linear Algebra • Analysis • Physics • Numerical Analysis

**INTERESTS** Painting, Reading, Swimming, Tennis, Public Speaking