

Matteo Bortoletto

Ph.D. Candidate at the University of Stuttgart

matteo.bortoletto@vis.uni-stuttgart.de [◇ GitHub](#) [◇ Website](#) [◇ LinkedIn](#)

EDUCATION

University of Stuttgart, Germany

Feb 2022 - Present

Ph.D. in Computer Science

Thesis Title: “Multi-Modal Collaborative Theory of Mind” (Advisor: Andreas Bulling)

University of Padua, Italy

2019-2022

M.Sc. in Physics of Data, *cum laude*

Thesis Title: “Study of performances for Restricted Boltzmann Machines” (Advisor: Marco Baiesi)

University of Padua, Italy

2016-2019

B.Sc. in Physics

Thesis Title: “Oscillations in stochastic population dynamics models” (Advisor: Samir Suweis)

PUBLICATIONS

Matteo Bortoletto, Lei Shi, and Andreas Bulling. “Neural Reasoning About Agents’ Goals, Preferences, and Actions.” In *Proceedings of the 38th AAAI Conference on Artificial Intelligence (AAAI)*, 2024.

Guanhua Zhang, **Matteo Bortoletto**, Zhiming Hu, Lei Shi, Mihai Băce, Andreas Bulling. “Exploring Natural Language Processing Methods for Interactive Behaviour Modelling.” In *Proceedings of IFIP TC13 Conference on Human-Computer Interaction (INTERACT)*, 2023. 🏆 Best Student Paper Nomination

Ekta Sood, Lei Shi, **Matteo Bortoletto**, Yao Wang, Philip Müller, Andreas Bulling. “Improving neural saliency prediction with a cognitive model of human visual attention.” In *Proceedings of the Annual Meeting of the Cognitive Science Society (CogSci)*, 2023.

TEACHING EXPERIENCE

Course Coordinator and Lecturer, Computational Theory of Mind and Cognition

SS 2024

Teaching Assistant, Machine Perception and Learning

SS 2022, WS 2022, WS 2023

MENTORING

Jann-Philip Thewes, M.Sc. Thesis: “Multimodal LLM for Theory of Mind Modeling in Collaborative Tasks”, 2024.

Constantin Ruhdorder, M.Sc. Thesis: “Into the Minds of the Chefs: Using Theory of Mind for Robust Collaboration with Humans in Overcooked”, 2023. 🏆 Rul Gunzenhäuser Award

John Pravin Arockiasamy, M.Sc. Research Project: “Transformer Based Architecture for Belief Prediction in Object-Context Scenarios”, 2023.

Michael Erdemann, M.Sc. Thesis: “Recreating False-Belief Tests as Visual Question Answering Tasks”, 2023.

WORK EXPERIENCE

University of Padua, Research Fellow

Mar 2021 - May 2021

Piritech, Software Developer Intern

Mar 2021 - May 2021

SERVICES

Reviewer: CHI'24
Student Volunteer: AAAI'24

AWARDS

AAAI'24 Scholarship	<i>Feb 2024</i>
StartCup Veneto Start up competition winner, TooBusy	<i>Aug 2021</i>
Research Grant , University of Padua, "Urban Big Data for Economic Development"	<i>Mar 2021</i>

SKILLS

Languages: English (fully proficient), Italian (native speaker), Spanish (good), German (basic)
Programming Languages: Python, Bash, R
Python Packages: PyTorch, Huggingface, Pandas, Numpy, Scipy, Jupyter, LangChain
Software & Tools: Linux, MacOS, L^AT_EX, Microsoft Suite

HOBBIES AND ACTIVITIES

Watercolour painting, music, reading, cinema, bodyweight exercise.

Last update: March 28, 2024