



Sayantan Auddy

Machine Learning and Robotics Researcher

<https://sayantanauddy.github.io/>

sayantan.auddy@uibk.ac.at

[Google Scholar](#) • [GitHub](#) • [LinkedIn](#)

RESEARCH INTERESTS

- Continual learning
- Robotics
- Deep learning
- Deep reinforcement learning

WORK EXPERIENCE

RESEARCH AND TEACHING

- Scientific Staff and Teaching Assistant**
Department of Computer Science, University of Innsbruck, Austria Oct, 2018 - present
 - Research on continual learning of multiple robotics tasks learned from human demonstrations; creation of robot learning datasets
 - Reviewer for machine learning and robotics journals (RA-L, TPAMI, TCDS) and conferences (ICRA, IROS, AAAI, ROMAN, ICDL, ECAI)
 - Associate Editor, International Conference on Ubiquitous Robots
 - Teaching machine learning lectures and seminars; B.Sc. and M.Sc. theses supervision of 8 students; development of teaching materials

- Student (Research) Assistant**
Computer Vision group, University of Hamburg, Germany May, 2017 - Mar, 2018
Max-Planck-Institute for Meteorology, Hamburg, Germany Sep, 2015 - Mar, 2018
Machine Learning group, University of Hamburg, Germany Mar, 2015 - Aug, 2015

INDUSTRY EXPERIENCE

- Consultant**
Capgemini India Pvt. Ltd., Kolkata, India Feb, 2014 - Aug, 2014
 - Data warehouse application development

- Associate**
Cognizant Technology Solutions India Pvt. Ltd., Kolkata, India Jan, 2013 - Feb, 2014
 - Data warehouse application development

- Senior Systems Engineer**
Infosys Limited, Bhubaneswar, India Dec, 2009 - Dec, 2012
 - Data warehouse application development and optimization

SKILLS

<i>Programming</i>	Python, Shell Scripting, Java, C++
<i>Robotics</i>	ROS, Gazebo, CoppeliaSim
<i>Machine Learning</i>	PyTorch, Keras, Tensorflow, Scikit
<i>Infrastructure</i>	GPU cluster and Slurm, Docker, Apptainer/Singularity
<i>Databases</i>	Teradata, Oracle, SQL Scripting

SELECTED PUBLICATIONS

- Continual Learning from Demonstration of Robotics Skills** [\[paper\]](#) [\[code\]](#) 2023
S. Auddy, J. Hollenstein, M. Saveriano, A. Rodríguez-Sánchez, J. Piater
Robotics and Autonomous Systems (RAS)
Conference on Lifelong Learning Agents (CoLLAs) - Journal Track
- Action Noise in Off-Policy Deep Reinforcement Learning: Impact on Exploration and Performance** [\[paper\]](#) 2022
J. Hollenstein, S. Auddy, M. Saveriano, E. Renaudo, J. Piater
Transactions on Machine Learning Research (TMLR)
- Hierarchical Control for Bipedal Locomotion using Central Pattern Generators and Neural Networks** [\[paper\]](#) [\[code\]](#) 2019
S. Auddy, S. Magg, S. Wermter
IEEE International Conference on Development and Learning (ICDL)

SELECTED PREPRINTS

- Scalable and Efficient Continual Learning from Demonstration via Hypernetwork-generated Stable Dynamics Model** [\[paper\]](#) 2023
S. Auddy, J. Hollenstein, M. Saveriano, A. Rodríguez-Sánchez, J. Piater
Under peer review

Please visit my [Google Scholar profile](#) for the full publication list.

SELECTED PRESENTATIONS

- | | | |
|---------------|---|-----------|
| <i>Talk</i> | Continual AI Unconference (online) | Oct, 2023 |
| <i>Poster</i> | Conference on Lifelong Learning Agents (Montreal, Canada) | Aug, 2023 |
| <i>Talk</i> | Lifelong Learning workshop at RO-MAN (online) | Sep, 2020 |
| <i>Talk</i> | International Conference on Development & Learning (Oslo, Norway) | Aug, 2019 |

EDUCATION

- PhD student** | Computer Science Oct, 2018 - Present
University of Innsbruck, Austria
Dissertation topic: Continual learning for robotics
- Master of Science** | Intelligent Adaptive Systems Oct, 2014 - Jan, 2018
University of Hamburg, Germany
Passed with distinction [\[thesis\]](#)
- Bachelor of Technology** | Computer Science & Engineering Aug, 2005 - Aug, 2009
West Bengal University of Technology, India

SELECTED AWARDS

- Deutschlandstipendium** (Germany Scholarship) Jan, 2016
Awarded by the German Federal Ministry of Education & Research
- Infosys MFG Star Award** Jun, 2012
Business unit-level recognition conferred by Infosys Limited

CERTIFICATIONS

Deep Learning Specialization <i>Coursera</i>	Aug, 2018
Introduction to Robotics <i>QUT, Australia</i>	May, 2015
Teradata 12 Certified Professional <i>Teradata</i>	Sep, 2013
Sun Certified Programmer for the Java 2 Platform <i>Sun Microsystems</i>	Jun, 2009

LANGUAGES

English (fluent), German (intermediate), Bengali (native), Hindi (fluent)