EXPERIENCE

Ост 2022 to DPhil Candidate at GOALS Group, Oxford Robotics Institute, University of Oxford, UK Present - Analysed methods of integrating time into planning with Markov Decision Processes (MDPs). - Ran long-term deployments of Spot, including a world-first at the JET fusion reactor. - Consulted for external companies to help them use our autonomy system in practical applications. - Built more user-friendly internal tools to make building and simulation of MDPs simpler. - Engaged in public outreach, including operating Spot during the 2023 Royal Institution Christmas Lectures. Inaugural Local Policy Lab Fellow at THE OXFORD SDG IMPACT LAB, OXford, UK May 2024 to **JULY 2024** - Collaborative investigation of carbon dioxide removal for Oxfordshire County Council's 2030 carbon neutrality target. - Presented our work to Council and University stakeholders, and compiled a policy brief. Robotics Software Engineer at Oxford Robotics Institute, University of Oxford, Oxford, UK Nov 2019 to Ост 2022 - Lead developer on robot-agnostic autonomy system used across the institute on Spot, Scitos X3, HSR, and Jackal. - Responsible for integration of hardware and software capabilities on Spot. Improved the spot_ros package. - Refined internal Spot risk assessment and developed additional safety software and hardware with the hardware team. - Ran trials and demonstrations of Spot to the public, project funders, and industry, including nuclear and construction. - Assisted development on the Frontier mapping device, integrating onto robots and automating software setup. - Created procman_ros, porting the existing distributed process manager package to ROS and GTK3+. Research Assistant at Vision For Robotics Group, Technische Universität Wien, Vienna, Austria Jun 2017 to Jan 2019 - PhD candidate and teaching assistant, working on semantic segmentation and mapping for long-term robot autonomy. - Reviewed literature on 3d segmentation and SLAM, evaluated performance of various state of the art algorithms. STRANDS Project Research Associate at UNIVERSITY OF BIRMINGHAM, Birmingham, UK Ост 2016 to May 2017 - On-site support for robot deployment, assisting project partners setting up and debugging their code on the Scitos G5. - General linux hardware and software support, network configuration and status monitoring. - Created RViz tools and panels to display and quickly and easily modify the graph-based autonomy system. - Implemented scripts for robot startup and easier creation of task routines for long-term autonomy. - Improved software package documentation, scripted aggregation of documentation from all project repositories. Innovation Team Intern at YUJIN ROBOT Co., LTD, Seoul, Republic of Korea Jul 2015 to Jan 2016 - Co-design and implementation of the py_trees package and visualisation, now a popular Python behaviour tree library. - Behaviour design, diagnostics, simulation layer implementation, and module interfacing in ROS for the GoCart robot. Helped with ROS integration of web interface packages for robot control using REST and Celery. - Contributed to open source ROS packages diagnostic_aggregator and audio_common. **EDUCATION**

DPhil Engineering Science, Oxford Robotics Institute	Ост 2022 to
Keble College, University of Oxford, Oxford, UK	Present
Research focus: Long-Horizon Temporal Planning Under Uncertainty for Industrial Robotics	
MSc Systems, Control and Robotics, Robotics and Autonomous Systems track	Aug 2013 to
KTH ROYAL INSTITUTE OF TECHNOLOGY, Stockholm, Sweden	Aug 2013 to Jun 2015
Thesis: Feature-Feature Matching for Object Retrieval in Point Clouds	
BSc (Hons) Computer Science with Study Abroad, First Class Honours	SEP 2009 to
University of Birmingham, Birmingham, UK	Jun 2013
Thesis: Time Delay Estimation in Gravitationally Lensed Photon Streams	
Study abroad: Japanese Language Programme, Keio University, Tokyo, Japan	

Publications

Staniaszek , Brudermüller, You, Bhattacharyya, Lacerda, Ha		Under
Mobile Robot Missions, in: ECMR 2023 Special Issue, Robotic	es and Autonomous Systems (RAS)	REVIEW
Staniaszek , Brudermüller, Bhattacharyya, Lacerda, Hawes <i>Uncertainty for Large-Scale Robot Missions</i> , in: European Co	-	July 2023
Street, Lacerda, Staniaszek , Mühlig, Hawes. <i>Context-Awar tainty</i> . International Conference on Autonomous Agents ar		May 2022
COMMUNITY AND CIVIL SOCIETY		
Welfare Officer for Keble College Middle Common Roo	DM	Jul 2023 to
- Organised welfare events for Keble's graduate community, incl	uding weekly brunch attended by over 40 people.	Present
Presiding Officer for Oxford City Council Elections		May 2021
 Responsible for running a polling station on election day, inclu Collected ballot boxes, set up the station, provided ballots to vo 		
Assistant Observer at Democracy Volunteers		May 2019 to
 Observed for elections in the UK, and EU, visited polling stations Co-wrote a report on 2020 US election in Georgia, summarising 		Jan 2021
Warehouse Volunteer at Fareshare London		Apr 2019 to
- Categorised and arranged incoming food in the warehouse, gat	hered food orders for distribution to charities.	Nov 2019
Teaching		
Teaching Assistant at Vision for Robotics Group, Tech	inische Universität Wien	Jun 2017 to
 Administered the Masters' Machine Vision and Cognitive Robotic Updated and maintained assignment content, managed tutors, gr 	•	Jan 2019
Robot Programming Demonstrator at University of B	IRMINGHAM	Jan 2017 to
 Discussed theoretical and software problems with students to help them understand the AI concepts being taught. Helped students work together as teams to complete assignments, and graded them based on live demonstrations. 		
Scholarships and Awards		
Computer Science Prize & Research Committee Proje	ct Prize at University of Birmingham	Jul 2013
- School of Computer Science award for the top final year studer	ıt, and best research project thesis.	
Nuffield Undergraduate Research Bursary at University	ty of Birmingham	Jul 2011
- Bursary to support a summer research project to investigate pa	rticle filter localisation for AUVs.	
Programming and Software	Languages	
Python, ROS, git, Linux, bash, C++, LATEX	English (native), Japanese (good), Polish (good)
Public repositories at github.com/heuristicus	German (basic)	