

# Michał Staniaszek

m.staniaszek@gmail.com

github.com/heuristicus

## EXPERIENCE

<b>DPhil Candidate</b> at GOALS GROUP, OXFORD ROBOTICS INSTITUTE, UNIVERSITY OF OXFORD, Oxford, UK <ul style="list-style-type: none"><li>– Researched temporal methods in MDPs, wrote code to make building and simulation of MDPs more user friendly.</li><li>– Engaged in public outreach, including operating Spot during the 2023 Royal Institution Christmas Lectures.</li></ul>	OCT 2022 to PRESENT
<b>Robotics Software Engineer</b> at OXFORD ROBOTICS INSTITUTE, UNIVERSITY OF OXFORD, Oxford, UK <ul style="list-style-type: none"><li>– Led development of robot-agnostic autonomy system used across the institute, integrating hardware and software.</li><li>– Ran demonstrations of Spot to the public, project funders, and industry, developed risk assessments and safety tools.</li></ul>	Nov 2019 to OCT 2022
<b>Research Assistant</b> at VISION FOR ROBOTICS GROUP, TECHNISCHE UNIVERSITÄT WIEN, Vienna, Austria <ul style="list-style-type: none"><li>– Administration of courses in computer vision and robotics, improved assignment structure and graded students.</li><li>– Reviewed literature on computer vision and mapping, evaluated performance of various state of the art algorithms.</li></ul>	JUN 2017 to JAN 2019
<b>STRANDS Project Research Associate</b> at UNIVERSITY OF BIRMINGHAM, Birmingham, UK <ul style="list-style-type: none"><li>– Assisted researchers with robots through hardware and software support, network configuration, and status monitors.</li><li>– Improved usability of systems through scripting, user interfaces, and software package documentation.</li></ul>	OCT 2016 to MAY 2017
<b>Innovation Team Intern</b> at YUJIN ROBOT CO., LTD, Seoul, Republic of Korea <ul style="list-style-type: none"><li>– Co-design and implementation of a software package for high-level robot control and state visualisation.</li><li>– Behaviour design, diagnostics, simulation, and module interfacing for an in-development robot.</li></ul>	JUL 2015 to JAN 2016

## EDUCATION

<b>DPhil Engineering Science</b> , Oxford Robotics Institute KEBLE COLLEGE, UNIVERSITY OF OXFORD, Oxford, UK Research focus: <i>Long-Horizon Temporal Planning Under Uncertainty for Industrial Robotics</i>	OCT 2022 to PRESENT
<b>MSc Systems, Control and Robotics</b> , Robotics and Autonomous Systems track KTH ROYAL INSTITUTE OF TECHNOLOGY, Stockholm, Sweden Thesis: <i>Feature-Feature Matching for Object Retrieval in Point Clouds</i>	AUG 2013 to JUN 2015
<b>BSc (Hons) Computer Science with Study Abroad</b> , First Class Honours UNIVERSITY OF BIRMINGHAM, Birmingham, UK Thesis: <i>Time Delay Estimation in Gravitationally Lensed Photon Streams</i> Study abroad: <b>Japanese Language Programme</b> , KEIO UNIVERSITY, Tokyo, Japan	SEP 2009 to JUN 2013

## COMMUNITY AND CIVIL SOCIETY

<b>Welfare Officer</b> for KEBLE COLLEGE MIDDLE COMMON ROOM <ul style="list-style-type: none"><li>– Organised welfare events for Keble's graduate community, including weekly brunch attended by over 40 people.</li></ul>	JUL 2023 to PRESENT
<b>Presiding Officer</b> for OXFORD CITY COUNCIL ELECTIONS <ul style="list-style-type: none"><li>– Responsible for running a polling station on election day, including security of the ballot.</li><li>– Collected ballot boxes, set up the station, provided ballots to voters, answered questions about voting process.</li></ul>	MAY 2021
<b>Assistant Observer</b> at DEMOCRACY VOLUNTEERS <ul style="list-style-type: none"><li>– Observed for elections in the UK, and EU, visited polling stations to record data and check compliance with regulations.</li><li>– Co-wrote a report on 2020 US election in Georgia, summarising local media, legal cases, and social media reactions.</li></ul>	MAY 2019 to JAN 2021
<b>Warehouse Volunteer</b> at FARESHARE LONDON <ul style="list-style-type: none"><li>– Categorised and arranged incoming food in the warehouse, gathered food orders for distribution to charities.</li></ul>	APR 2019 to NOV 2019

## PUBLICATIONS

---

<b>Staniaszek</b> , Bruder Müller, Bhattacharyya, Lacerda, Hawes. <i>Difficulty-aware Time-Bounded Planning Under Uncertainty for Large-Scale Robot Missions</i> . ECMR	JULY 2023
Street, Lacerda, <b>Staniaszek</b> , Mühlig, Hawes. <i>Context-Aware Modelling for Multi-Robot Systems Under Uncertainty</i> . AAMAS	MAY 2022

## TEACHING

---

<b>Teaching Assistant</b> at VISION FOR ROBOTICS GROUP, TECHNISCHE UNIVERSITÄT WIEN	JUN 2017 to
– Administered the Masters’ <i>Machine Vision and Cognitive Robotics</i> and Bachelors’ <i>Robotics and Computer Vision</i> courses.	JAN 2019
– Updated and maintained assignment content, managed tutors, graded assignments, and provided assistance to students.	
<b>Robot Programming Demonstrator</b> at UNIVERSITY OF BIRMINGHAM	JAN 2017 to
– Discussed theoretical and software problems with students to help them understand the AI concepts being taught.	APR 2017
– Helped students work together as teams to complete assignments, and graded them based on live demonstrations.	

## SCHOLARSHIPS AND AWARDS

---

<b>Computer Science Prize &amp; Research Committee Project Prize</b> at UNIVERSITY OF BIRMINGHAM	JUL 2013
– School of Computer Science award for the top final year student, and best research project thesis.	
<b>Nuffield Undergraduate Research Bursary</b> at UNIVERSITY OF BIRMINGHAM	JUL 2011
– Bursary to support a summer research project to investigate particle filter localisation for AUVs.	

## PROGRAMMING AND SOFTWARE

---

Python, ROS, git, Linux, bash, C++,  $\text{\LaTeX}$   
Public repositories at [github.com/heuristicus](https://github.com/heuristicus)

## LANGUAGES

---

English (native), Japanese (good), Polish (good)  
German (basic)