

# Michał STANIASZEK

Born 7 December 1990, British national    m.staniaszek@gmail.com

## WORK EXPERIENCE

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JUNE 2017 to PRESENT	<b>Research Assistant</b> at TECHNISCHE UNIVERSITÄT WIEN, Vienna, Austria PhD candidate and lead teaching assistant in the Vision for Robotics group, working on semantic segmentation and mapping for long-term autonomous robot operation.
OCTOBER 2016 to MAY 2017	<b>STRANDS Project Research Associate</b> at UNIVERSITY OF BIRMINGHAM, Birmingham, UK Fixed term contract assisting project partners with system integration. Improved software tools and monitoring to support robot deployment in an office. Aggregated and improved project documentation.
MARCH to JULY 2016	<b>Marie Skłodowska-Curie Early Stage Researcher</b> at FRAUNHOFER IPA, Germany PhD candidate in environment modelling and motion prediction in dynamic environments as part of the Horizon 2020 SECURE project. Left the post due to incompatibility.
JULY 2015 to JANUARY 2016	<b>Innovation Team Intern</b> at YUJIN ROBOT CO., LTD, Seoul, Republic of Korea Python and C++ development in ROS for the GoCart logistics robot. Worked on behaviour trees and behaviour design, diagnostics, simulation layer implementation and module interfacing. Made contributions to several ROS packages.

## EDUCATION AND QUALIFICATIONS

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AUGUST 2013 to JUNE 2015	<b>MSc Systems, Control and Robotics</b> , Robotics and Autonomous Systems track KTH ROYAL INSTITUTE OF TECHNOLOGY, Stockholm, Sweden
SEPTEMBER 2009 to JUNE 2013	<b>BSc Computer Science with Study Abroad</b> , First Class Honours Top of graduating class (final year: 92%, weighted average: 89%) UNIVERSITY OF BIRMINGHAM, Birmingham, UK
SEPTEMBER 2011 to JULY 2012	<b>Japanese Language Programme</b> , Advanced Level Japanese Language Proficiency Test level N1 (90%) KEIO UNIVERSITY, Tokyo, Japan

## ACADEMIC AND RESEARCH ACTIVITY

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JANUARY to JUNE 2015	Master's Thesis: <b>Feature-Feature Matching for Object Retrieval in Point Clouds</b> Developed a system using PCL and ROS to extract features from point clouds, and find query objects in the resulting feature set. Performed an experimental evaluation to find good descriptors and interest point methods. Supervised by John Folkesson.
JULY to AUGUST 2014	Participant in <b>Tohoku University Engineering Summer Programme (TESP)</b> Attended lectures on several different areas related to robotics, and worked on a short project on obstacle avoidance for a tracked mobile robot. Participants were robotics students from across the world.
SEPTEMBER 2012 to APRIL 2013	Bachelor's Thesis: <b>Time Delay Estimation in Gravitationally Lensed Photon Streams</b> Developed a system to estimate characteristic functions of streams with weighted least squares techniques and compare them with probabilistic techniques to estimate the time delay. Supervised by Peter Tiño.
JANUARY to JULY 2011	Participant at <b>Student Autonomous Underwater Competition - Europe (SAUC-E)</b> Collaboration between the University of Birmingham and University of Southampton to prepare the Delphin AUV for the competition in July. Converted the control system from Matlab to ROS Python.
OCTOBER 2010 to JULY 2013	Founding member of <b>Birmingham Autonomous Robotics Club</b> Co-founded the club due to interest from computer science faculty and undergraduate students in solving robotics problems and increasing the profile of the field in the school.

## TEACHING

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JUNE 2017 to PRESENT	<b>Lead Teaching Assistant</b> at VISION FOR ROBOTICS GROUP, TECHNISCHE UNIVERSITÄT WIEN Administering the <i>Machine Vision and Cognitive Robotics</i> and <i>Robotics and Computer Vision</i> courses. Updating and maintaining assignment content, managing tutors, grading assignments, and providing assistance to students
JANUARY 2013 to APRIL 2013	<b>Robot Programming Demonstrator</b> at UNIVERSITY OF BIRMINGHAM Answered questions from students about the implementation of various algorithms and the application of artificial intelligence techniques for use on LEGO NXT robots.
SEPTEMBER 2012 to DECEMBER 2012	<b>Foundation Year Computer Science Demonstrator</b> at UNIVERSITY OF BIRMINGHAM Helped foundation year students understand basic programming concepts, and evaluated their performance in assignments.
SEPTEMBER 2010 to APRIL 2011	<b>Software Workshop (Java) Demonstrator</b> at UNIVERSITY OF BIRMINGHAM One of five second year students selected to demonstrate for the First Year Workshop Java module. Provided advice on assignments, programming concepts, and the Java API.

## BURSARIES, SCHOLARSHIPS AND AWARDS

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JULY 2013	<b>Computer Science Prize</b> Awarded to the highest scoring final year student in the University of Birmingham School of Computer Science
JULY 2013	<b>Research Committee Project Prize</b> Awarded for the best research related dissertation by the University of Birmingham School of Computer Science
JANUARY to APRIL 2012	<b>Japan Student Services Organisation Scholarship</b> Short-term scholarship to support study in Japan.
JULY to SEPTEMBER 2011	<b>Nuffield Undergraduate Research Bursary</b> Bursary to support a summer research project to investigate particle filter localisation for AUVs.

## PROGRAMMING AND SOFTWARE

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Python, C++, ROS, git, Linux, ~~LaTeX~~

Public repositories at [github.com/heuristicus](https://github.com/heuristicus)

## LANGUAGES

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English (native), Japanese (fluent), Polish (bilingual)

## REFEREES

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Addresses and positions for referees are current. Bold text indicates where the person supervised me.

### University of Birmingham

Nick Hawes

Associate Professor of Robotics  
[nickh@robots.ox.ac.uk](mailto:nickh@robots.ox.ac.uk)

Oxford Robotics Institute  
23 Banbury Road, Felstead House  
Oxford  
OX2 6NN, UK

### Technische Universität Wien

Markus Vincze

Associate Professor  
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Automation and Control Institute  
Technische Universität Wien  
Gußhausstrasse 27-29  
1040, Vienna, Austria

### Yujin Robot

Daniel Stonier

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