

# Euan Judd

euan.judd@bristol.ac.uk

euanjudd.github.io

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## Academic Interests

Soft Robotics

Morphological Computation

Machine Learning

Optimisation

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## Education

2017 – Present     **PhD in Robotics and Autonomous Systems, FARSCOPE CRT, University of Bristol**

Thesis: Sensing Through the Body

Dr Helmut Hauser and Professor Jonathan Rossiter, University of Bristol

2010 – 2014     **Bachelor of Engineering in Mechanical Engineering (1<sup>st</sup> Class), University of Aberdeen**

Thesis: Flow-seaweed interactions at a blade scale: implications for bio-fuel aquaculture

Professor Vladimir Nikora, University of Aberdeen

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## Publications

- E Judd, K M Digumarti, J Rossiter, and H Hauser, NeatSkin: A Discrete Impedance Tomography Skin Sensor, *IEEE International Conference on Soft Robotics (RoboSoft)* 2020.
  - E Judd, G Soter, J Rossiter, and H Hauser, Sensing Through the Body-Non-Contact Object Localisation Using Morphological Computation, Lecture presentation at *IEEE International Conference on Soft Robotics (RoboSoft)* 2019.
  - Y Liu, T Hu, H Ni, C Zhang, B Lin, and E Judd, Design of a PC-based Open Industrial Robot Control System Integrated with Real-Time Machine Vision, *IEEE WRC Symposium on Advanced Robotics and Automation (WRC SARA)*, 2018.
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## Projects and Work Experience

Sept 2019 – Jan 2020     **Teaching Assistant – University of Bristol**

EMAT10007: Introduction to Computer Programming (Python)

Apr 2016 – Jan 2017     **Management Trainee – Burgess Management Consultants Ltd**

Developed a project management app using Visual Basic.

June – Aug 2013     **Summer Project – Aberdeen Biomedical Imaging Centre**

Project: Switching Coil Design for a Fast Field Cycling MRI (FFC-MRI)

Feb – April 2013     **Semester Project – Environmental and Industrial Fluid Mechanics Group, Aberdeen**

Project: Analysis of fluid flow over different riverbed compositions

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## Awards and Achievements

- 1st Place, Scottish Hydraulics Study Group Undergraduate Prize, Institution of Civil Engineers, 2014
  - Fundraised £3000 for Raleigh International and helped fundraised £1500 for Childreach International.
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## Outreach and Voluntary Work

- Volunteer with Raleigh International, Borneo (June 2012 – September 2012) on building a kindergarten for disadvantaged children and a conservation project for Sun Bears.
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## Technical Skills

Tools and Technologies	Machine learning, image processing, computer-based simulation, modelling
Software	MATLAB, COMSOL, SolidWorks, Python, C++, LabVIEW, Visual Basic
Workshop Skills	3D printing, casting, laser cutting, soldering

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## Hobbies

- Hiked a section of the Baekdudaegan mountain range in South Korea after presenting at RoboSoft