AIDAN SCANNELL

PhD Researcher

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EXPERIENCE

Teaching Assistant

University of Bristol

Sept 2018 - Ongoing

Bristol, UK

Alongside my PhD I have assisted teaching:

- Machine Learning COMS30007
- Robotic Systems COMSM0012
- Intelligent Information Systems EMATM0042

Communication Active Listening

PhD Researcher

University of Bristol

Sept 2018 – Ongoing

Bristol, UK

Optimal control

Researching data-efficient learning for the control of robotic systems. EPSRC Centre for Doctoral Training in Future Autonomous and Robotic Systems (FARSCOPE).

Probabilistic modelling Gaussian processes Variational inference

Model-based reinforcement learning

PROJECTS

Identifiable Mixtures of Sparse Variational Gaussian Process Experts

University of Bristol

Sept 2018 - Ongoing

- Bristol. UK
- Improving scalability in the Mixtures of Gaussian Process Experts model with Gaussian process based gating networks.
- Variational inference based on sparse GP approximations.
- **Q** aidanscannell/mogpe

GPflow

TensorFlow Gaussian processes Variational inference

Trajectory Optimisation in Learned Multimodal Dynamical Systems

University of Bristol

Sept 2019 - Ongoing Bristol. UK

- Learning multimodal probabilistic transition dynamics.
- Finds trajectories that 1) remain in a desired dynamics mode 2) avoid regions of the dynamics with high epistemic uncertainty.
- **Q** aidanscannell/trajectory-optimisation-in-learned-multimodaldynamical-systems
- Probabilistic geometries JAX Optimal control

SKILLS

Bristol, UK



EDUCATION

Ph.D. in Bayesian Machine Learning for Robotic Control University of Bristol

Sept 2018 - Ongoing

M.Res. in Robotics & Autonomous Systems

University of Bristol

🚞 Sept 2017 - Sept 2018

- First Class Honours
- Extending BDI Agents to Model and Reason with Uncertainty

M.Eng. in Mechanical Engineering University of Bristol | First Class Honours

- **Sept 2012 June 2016**
- First Class Honours
- Graduated in top 10% of cohort

ACHIEVEMENTS



Starting To Teach Acquired the knowledge and skills to establish myself as a confident, enthusiastic and effective teacher who is able to engage, encourage and develop students' learning.

Bristol Plus Award

For undertaking a wide range of tasks to further enhance student skills - only 700 out of 23000 achieved this awards per annum.



VOLUNTEERING

Club Leader

Code Club

📋 Dec 2017 - April 2018

🗣 Bristol, UK

I collaborated with Code Club and Bristol Libraries to set up and run a Code Club for young people aged 9-13 at Junction 3 Library in Easton, Bristol.

Leadership Teaching

Technical Lead (Drivetrain)

Formula Student

i Jan 2015 - Jan 2016

Bristol, UK

Each year, as part of Formula Student, students design, build and race a single seat race car.

- Finished 2nd in the National Class 2 competition in 2013/2014, I was then selected as the Drivetrain lead.
- This role improved my communication skills as I was leading weekly presentations.
- I developed my leadership skills through setting realistic objectives, effectively allocating work to the appropriate team members and monitoring outcomes.

Teamwork

Time Management

Snowboard Captain

University of Bristol Snowsports Club

Leadership

📋 Jan 2014 - Sept 2015 🔹 🗣 Bristol, UK

- Organised multiple weekly training sessions, demonstrating my ability to plan and run events smoothly.
- Negotiated competitive prices for a growing member base within an inherently expensive sport.
- Responsible for aiding the smooth running of the club and helping to organise the annual university ski trip, with circa 1500 participants, working under pressure to manage people in high stress situations.
- Awarded the 'Team of the Year' award and full colours for my performances and contributions to the sport.

Teamwork

Leadership Time Management

REFEREES

Prof. Arthur Richards
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Dr. Carl Henrik Ek
③ University of Cambridge
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