

Crispian Morris

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Education

PhD - University of Bristol

Bristol, UK

DEPT. OF COMPUTER SCIENCE: LOW-LIGHT FUSION AND AUTOFOCUS FOR ADVANCED WILDLIFE COVERAGE

Expected July 2026

- BBC/iCASE funded PhD looking at learning-based computer vision approaches for autofocus in low-light videography. Selected publications:
 - ICIP 2023: ST-MFNet Mini: Knowledge distillation-driven frame interpolation
 - WACV 2025: DaBiT: Depth and blur informed transformer for video deblurring
 - ACMM 2025: Towards a General-Purpose Zero-Shot Synthetic Low-Light Image and Video Pipeline

BEng - University of Bristol

Bristol, UK

ENGINEERING MATHEMATICS WITH 1ST CLASS HONOURS

July 2022

- Final Year Projects: Agent based modelling of COVID-19 spread in Bristol, Novel machine learning approaches for vehicle detection based on Clifton Suspension Bridge accelerometer data, and Bivouac, a wild campsite locator using novel ‘preferability surfaces’.

Work Experience

University of Bristol IT Services

Bristol, UK

LAPTOP AND MOBILE CLINIC MANAGER

August 2020 – August 2025

- Sole student lead for a group of 18 students employed by Bristol University IT Services for troubleshooting technical issues on other students' personal devices.
- Created senior management position and held it until the end of the clinic in 2025.

Bristol Vision Institute

Bristol, UK

DEEP LEARNING RESEARCH INTERNSHIP

June 2022 - August 2022

- Engineering faculty research internship. Resulted in IEEE published work creating a smaller and faster version of a video frame interpolation model using various model compression techniques, including knowledge distillation.

National Composites Centre

Bristol, UK

DATA SCIENCE RESEARCH INTERNSHIP

July 2021 – August 2021

- Supported researchers by using machine learning to predict the relationships between the 12 lamination parameters of a given composite stacking sequence. Researched multiple approaches, tested potential implementations, and reported back on my findings.

KVAL, Inc.

Petaluma, CA

MECHATRONIC ENGINEERING ASSISTANT

July 2017 - September 2019

- Assisted engineers with server maintenance and Git repository management, designed production components, and completed multiple research projects on applications for developing technologies in the CNC machinery industry.

Skills

Machine Learning Python, PyTorch, Tensorboard, Weights & Biases, OpenCV, Model Compression

DevOps & Tools Git, Arch Linux, Remote Computing

Honors & Awards

2022 **Outstanding PLUS Award**, One of only **eight awards** issued by the University of Bristol Careers Service.

Bristol, UK

2021 **Bristol PLUS Award**, Issued by the University of Bristol Careers Service.

Bristol, UK

2017 **Eagle Scout**, Boy Scouts of America

Petaluma, CA

Volunteer Experience

University of Bristol Student's Union

Bristol, UK

ENGINEERING MATHEMATICS COURSE REPRESENTATIVE

2019 - 2022

- Main liaison between students and staff at both department and faculty level.

University of Bristol Expeditions Society

Bristol, UK

EXPEDITIONS OFFICER

2019 - 2024

- Lead and organised challenging hiking trips to the UK's National Parks for the society's 300+ members.
- In charge of planning and executing a 10-day backpacking expedition abroad for over 20 people.