

David Ryan

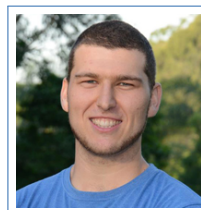
Curriculum Vitae

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Education

- 2013 **Ph.D (Computer Vision)**, Queensland University of Technology, Brisbane, Australia, *Thesis – Crowd Monitoring Using Computer Vision*.
- 2008 **B.Eng Hons (Electrical and Computer)**, Queensland University of Technology, Brisbane, Australia, *GPA – 6.5/7.0*.

Experience

- 2013–Present **Project Coordinator**, IMAGE AND VIDEO LABORATORY (QUT), Brisbane, Australia.
- Large scale evaluation of computer vision algorithms for crowd monitoring.
 - High quality journal article publications.
 - Developed GUIs for end-users to use crowd monitoring algorithms.
 - Provided academic supervision to students & researchers.
 - Served on review panels for PhD defence seminars.
- 2012 **Researcher (Traffic Monitoring)**, IMAGE AND VIDEO LABORATORY (QUT), Australia.
- Developed a traffic monitoring application using computer vision.
 - Used feature point tracking to measure vehicle throughput at intersections.
- 2009–2013 **Ph.D Candidate**, QUEENSLAND UNIVERSITY OF TECHNOLOGY, Brisbane, Australia.
- Developed novel crowd monitoring algorithms in multi-camera networks:
 - Crowd counting, crowd flow estimation, queue monitoring, abnormal event detection.
 - Experienced in camera calibration, background modelling, feature detection, optical flow, texture analysis, pedestrian detection.
 - Successfully implemented & used machine learning algorithms: Gaussian mixture models (GMM), hidden Markov models (HMM), Gaussian process regression (GPR), neural networks, support vector machines (SVM), decision trees, random forests.
 - Exciting live demos & research presentations.

Projects

- 2009–2013 **Airports of the Future**, Australian Research Council, Linkage LP0990135, Project value \$9M.
- 2010–2012 **Intelligent Surveillance Research for Crowd Monitoring and Event Detection**, National Security Science and Technology Unit (NSST) of the Department of Prime Minister and Cabinet, Research Support for Counter-Terrorism Program, Project value \$795K.

Publications

Online <http://dryan.id.au>

References

Available on request.