

Cedric Scheerlinck

PhD Candidate

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Google Scholar: https://scholar.google.com.au/citations?user=UU0Ql2wAAAAJ

EDUCATION

2017 – 2020 PhD candidate, Australian National University & Australian Centre for Robotic Vision

12 months at the University of Zurich & ETH.

2015, 2016 Masters of Mechanical Engineering, The University of Melbourne

Weighted Average Mark: 87% (H1), exchange semester ETH Zurich (2015) grade: 4.95,

Dean's Honours List (top 5%).

2012 – 2014 Bachelor of Science, The University of Melbourne

Weighted Average Mark: 84% (H1), Dean's Honours List.

2010, 2011 Secondary Education, The University High School

Top 1.75 percentile.

RESEARCH

09/2018 - 09/2019 Research Visit, RPG, University of Zurich & ETH

University of Zurich^{UZH}

Supervisors: Prof. Davide Scaramuzza, Dr. Guillermo Gallego. Image reconstruction, optical flow and deep learning with event cameras.

02/2017 – 02/2020 PhD candidate, ANU & ACRV

Australian National University Supervisors: Prof. Robert Mahony, A/Prof. Nicholas Barnes, Prof. Tom Drummond. Continuous-time robotic vision with event cameras.

03/2016 – 11/2016 Masters Thesis, The University of Melbourne

THE UNIVERSITY OF MELBOURNE

Supervisors: Prof. Andrew Ooi, Prof. Peter Barlis, Dr. Eric Poon. Computational fluid dynamics on 3D reconstructed coronary arteries.

09/2015 – 12/2015 Semester Project (Masters), ETH Zurich

ETH zürich

Supervisors: Prof. Thomas Rösgen, Dr. Lukas Prochazka. Flow visualization in porous media using thermal imaging.

EMPLOYMENT

2017, 2018 Teaching Assistant, The Australian National University

Courses: ENGN4200, ENGN4221, ENGN8170.

2016 Teaching Assistant, The University of Melbourne

Course: MCEN30014.

2015 Research Assistant, The University of Melbourne

Supervisors: Prof. Ivan Marusic, Dr. Jimmy Philip.

Building an oscillating grid to generate isotropic turbulence.

2011 – 2016 **Private Tutor**

Mathematics, Physics, Chemistry, Biology

AWARDS AND SCHOLARSHIPS

2018-2019	Swiss Government Excellence Scholarship
2018	Research to Impact (CBR Innovation Network)
2017-2020	Australian Government Research Training Program Scholarship
2017-2020	Postgraduate Research Scholarship (Australian Centre for Robotic Vision)
2015, 2016	Dean's Honours List (top 5%) (Melbourne University School of Engineering)
2015	Melbourne Global Scholars Award (University of Melbourne - ETH Zürich)
2014	Dean's Honours List, Bachelor of Science (University of Melbourne)

PUBLICATIONS

- 1. <u>C. Scheerlinck</u>, H. Rebecq, D. Gehrig, N. Barnes, R. Mahony, D. Scaramuzza, "Fast Image Reconstruction with an Event Camera", Winter Conference on Applications of Computer Vision (WACV), 2020.
- 2. <u>C. Scheerlinck</u>*, H. Rebecq*, T. Stoffregen, N. Barnes, R. Mahony, D. Scaramuzza, "CED: Color Event Camera Dataset", Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), 2019.
- 3. L. Pan, R. Hartley, <u>C. Scheerlinck</u>, M. Liu, X. Yu, and Y. Dai, "High Frame Rate Video Reconstruction based on an Event Camera", arXiv, 2019.
- 4. L. Pan, <u>C. Scheerlinck</u>, X. Yu, R. Hartley, M. Liu, Y. Dai, "Bringing a Blurry Frame Alive at High Frame-Rate with an Event Camera", Conference on Computer Vision and Pattern Recognition (CVPR), 2019. (**Oral** accept. rate 6%)
- 5. <u>C. Scheerlinck</u>, N. Barnes, R. Mahony, "Asynchronous Spatial Image Convolutions for Event Cameras", IEEE Robotics and Automation Letters (RAL), 4(2), April 2019, pp. 816-822. (Also presented at IEEE International Conference on Robotics and Automation (ICRA), 2019. Accept. rate 44%)
- 6. <u>C. Scheerlinck</u>, N. Barnes, R. Mahony, "Continuous-time Intensity Estimation Using Event Cameras", Asian Conference on Computer Vision (ACCV), Perth, 2018, pp.308-324. (Accept. rate 28%)
- 7. <u>C. Scheerlinck</u>, C. Mamon, T. Zahtila, W. Nguyen, E. Poon, V. Thondapu, C. Chin, S. Moore, P. Barlis, & A. Ooi, "Effect of Medical Imaging Modalities on the simulated blood flow through a 3D reconstructed stented coronary artery segment", 20th Australasian Fluid Mechanics Conference (AFMC), Perth, 2016.
- 8. E. Poon, V. Thondapu, C. Chin, <u>C. Scheerlinck</u>, T. Zahtila, C. Mamon, W. Nguyen, A. Ooi, & P. Barlis, "Computational fluid dynamics comparisons of wall shear stress in patient-specific coronary artery bifurcation using coronary angiography and optical coherence tomography", APS Meeting Abstracts, 2016.

PROJECTS

2019	Event Camera Wikipedia page
	https://en.wikipedia.org/wiki/Event_camera
2019	Color Event Camera Dataset
	http://rpg.ifi.uzh.ch/CED.html
2018	DVS Image Reconstruction (open-source C++ project)
	https://github.com/cedric-scheerlinck/dvs_image_reconstruction

CERTIFICATES AND AFFILIATIONS

2019	IEEE Student Member
2017	Associate Fellowship of the Higher Education Academy (AFHEA)
2017	Principles of Tutoring and Demonstrating, ANU
2014	Member of Engineers Australia
2014	Education Officer, Melbourne University Mechatronics Society
2009	Associate in Music, Australia (piano) (AMusA)

REFERENCES

Available upon request.