# Cedric Scheerlinck

PhD Candidate

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Web: https://cedric-scheerlinck.github.io/
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

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| 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. C. Scheerlinck*, 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.
2. L. Pan, C. Scheerlinck, 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%)
3. C. Scheerlinck, 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%)
4. C. Scheerlinck, 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%)
5. C. Scheerlinck, 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.
6. E. Poon, V. Thondapu, C. Chin, C. Scheerlinck, 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.

## CERTIFICATES AND AFFILIATIONS

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| 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) |

## PROJECTS

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| 2018 | DVS Image Reconstruction (open-source C++ project)<br>https://github.com/cedric-scheerlinck/dvs_image_reconstruction |
| 2019 | Event Camera Wikipedia page<br>https://en.wikipedia.org/wiki/Event_camera |

## REFERENCES

Available upon request.