



# Cedric Scheerlinck

PhD Candidate

Email: [cedric.scheerlinck@anu.edu.au](mailto:cedric.scheerlinck@anu.edu.au)

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

Google Scholar: <https://scholar.google.com.au/citations?user=UU0QI2wAAAAJ>

## EDUCATION

- 2017 – 2020 **PhD candidate in Computer Vision, The Australian National University**
- 2015, 2016 **Masters of Mechanical Engineering, The University of Melbourne**  
Weighted Average Mark: 87% (H1)  
Exchange semester ETH Zürich (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**  
Supervisors, Prof. Davide Scaramuzza, Dr. Guillermo Gallego.  
Image reconstruction, optical flow and deep learning with event cameras.
-  **University of Zurich**<sup>ETH</sup>
- 02/2017 – 02/2020 **PhD candidate in Computer Vision, ANU**  
Supervisors: Prof. Robert Mahony, A/Prof. Nicholas Barnes, Prof. Tom Drummond.  
Optical flow computation using event cameras with applications in high-speed aerial robotics, collision avoidance and 3D structure flow estimation.
-  **Australian National University**
- 03/2016 – 11/2016 **Masters Thesis, The University of Melbourne**  
Supervisors: Prof. Andrew Ooi, Prof. Peter Barlis, Dr. Eric Poon.  
Computational fluid dynamics studies on 3D reconstructed coronary arteries.  
Proceedings published in Australasian Fluid Mechanics Conference 2016.
-  **THE UNIVERSITY OF MELBOURNE**
- 09/2015 – 12/2015 **Semester Project (Masters), ETH Zürich**  
Supervisors: Prof. Thomas Rösgen, Dr. Lukas Prochazka.  
Institute of Fluid Dynamics. Flow visualization in porous media using thermal imaging.
-  **ETH zürich**

## 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.  
Designing and building an experimental setup 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 School of Engineering (University of Melbourne)  
2015              Melbourne Global Scholars Award (University of Melbourne - ETH Zürich)  
2014              Dean's Honours List, Bachelor of Science (University of Melbourne)  
2009              Associate in Music, Australia (piano) (AMEB)

## PUBLICATIONS

1. 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%)
2. 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%)
3. C. Scheerlinck, N. Barnes, R. Mahony, "Continuous-time Intensity Estimation Using Event Cameras," Asian Conference on Computer Vision (ACCV), Perth, 2018. (Accept. rate 28%)
4. 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.
5. 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

2017              Associate Fellowship of the Higher Education Academy (AFHEA)  
2017              Principles of Tutoring and Demonstrating, ANU  
2014 - Today    Member of Engineers Australia  
2014              Education Officer, Melbourne University Mechatronics Society

## PROJECTS

2018              DVS Image Reconstruction (open-source C++ project)  
[https://github.com/cedric-scheerlinck/dvs\\_image\\_reconstruction](https://github.com/cedric-scheerlinck/dvs_image_reconstruction)

## REFERENCES

Available upon request.