

Daniel Gehrig

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🎓 [Google Scholar](https://scholar.google.com/citations?user=HgkzQAAJAAQ&hl=en) 🌐 <https://danielgehrig18.github.io/>



Education

- 2018-2023 ■ **Ph.D.**, University of Zurich, Honors: *Summa cum laude*
- Research Topic: Robotics, computer vision, and deep learning with event-based cameras
- Dissertation Title: *Efficient Data-driven Perception with Event Cameras*
- Advisor: Prof. Davide Scaramuzza
- Dissertation Committee: Prof. Kostas Daniilidis (University of Pennsylvania), Prof. Marc Pollefeys (ETH Zurich), Prof. Andreas Geiger (University of Tübingen)
- GPA: 6.0/6.0
- 2016 – 2018 ■ **M.Sc. in Mechanical Engineering**, ETH Zurich, Honors: *Summa cum laude*
- Focus: Robotics, Artificial Intelligence, Computer Vision
- Overall grade point average: 6.0/6.0
- Thesis Title: Asynchronous Photometric Feature Tracking with Event- and Frame-based Cameras
- Advisor: Prof. Davide Scaramuzza
- Thesis Grade: 6.0/6.0
- 2012 – 2015 ■ **B.Sc. in Mechanical Engineering**, ETH Zurich
- Focus: Nanotechnology
- Overall grade point average: 5.6/6.0
- Thesis Title: Humidity Filters for Breath Analysis
- Advisor: Prof. Sotiris Pratsinis
- Thesis Grade: 6.0/6.0

Awards

- 2024 ■ **UZH Annual Prize** for outstanding Ph.D. Dissertation in the Department of Informatics
■ **University of Zurich Best Master Thesis Award** for the paper “A Hybrid ANN-SNN Architecture for Low-Power and Low-Latency Visual Perception”.
- 2021 ■ **Presentation award** for paper “Event-based Asynchronous Sparse Convolutional Networks”, at the On- and Near-sensor Vision Processing, from Photons to Applications (ONSVP), ICRA 2021 Workshop
- 2022 ■ **NCCR Robotics Master Thesis Award** for Paper “Combining Events and Frames using Recurrent Asynchronous Multimodal Networks for Monocular Depth Prediction”
- 2019 ■ **Willi Studer Prize** for the highest grade-point average in Masters degree program (6.0/6.0)
■ **ETH Medal** for outstanding Master Thesis in Mechanical and Process Engineering

Fellowships

- 2024 ■ **Postdoc.Mobility fellowship** from the Swiss National Science Foundation (SNSF) for my project on “Adaptive Perception with Event Cameras”

Educational Activities

- 2025 ■ **Guest Lecturer** at *Real-World Robot Learning*, University of Pennsylvania

Educational Activities (continued)

- | | |
|--------------|---|
| 2019-2022 | ■ Guest Lecturer at <i>Vision Algorithms for Mobile Robotics</i> , ETH Zurich |
| 2019-2020 | ■ Teaching Assistant at <i>Vision Algorithms for Mobile Robotics</i> , ETH Zurich |
| 2014 | ■ Teaching Assistant at <i>Lineare Algebra I/II and Analysis I</i> , ETH Zurich |
| 2014-Current | ■ Private tutoring high-school and university students. |

Media Coverage

- IEEE Spectrum, *Quadrupeds Are Learning to Dribble, Catch, and Balance*. Article available [here](#).
- IEEE Spectrum, *Remote-Control Burger Crafting*. Article available [here](#).
- TechXplore, *Bio-inspired cameras and AI help drivers detect pedestrians and obstacles faster*. Article available [here](#).
- Hello Future, *Autonomous vehicles may soon benefit from 100 times faster neuromorphic cameras*. Article available [here](#).

Advising

Master Students

- | | |
|-----------|---|
| 2024-2025 | ■ Royina Jayanth Karegoudra (now Ph.D. candidate at Princeton University) |
| | ■ Nishant Rao (now Ph.D. candidate at Princeton University) |
| 2023 | ■ Asude Aydin (now SonyAI) |
| | ■ Arman Raayatsanati (now TexQL) |
| | ■ Roberto Pellerito (now Ph.D. candidate at the University of Zurich) |
| 2022 | ■ Benedek Forrai (now founding engineer mimic) |
| | ■ Yang Miao (now at INSAIT) |
| | ■ Nico Schulthess (now Ph.D. candidate at ETH) |
| 2021 | ■ Florian Mahlknecht (now at Apple) |
| | ■ Friedrich Rockenbauer (now at Daedalean AI) |
| | ■ Julius Erbach (now Ph.D. candidate at ETH) |
| | ■ Yilun Wu (now Ph.D. candidate at TU Delft) |
| | ■ Mario Millhäusler (now at Huawei) |
| 2020 | ■ Patrick Barton (now founding member Caterra) |

Visiting Students

- | | |
|------|---|
| 2023 | ■ Nikola Zubic (now Ph.D. candidate at UZH) |
| 2022 | ■ Matteo Visona (now at Stevanato Group) |
| 2021 | ■ Simon Schaefer (now Ph.D. candidate at TU Munich) |
| 2020 | ■ Nico Messikommer (now Ph.D. candidate at UZH) |

Professional Service

- | | |
|------------------|--|
| Area Chair | ■ Robotics: IEEE International Conference on Robotics and Automation (ICRA) |
| Journal Reviewer | ■ IEEE Robotics and Automation Letters (RA-L), Nature, IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI), International Journal of Computer Vision (IJCV), IEEE Transactions on Image Processing (TIP) |

Professional Service (continued)

- Conference Reviewer
- *Robotics*: Robotics: Science and Systems (RSS), IEEE International Conference on Robotics and Automation (ICRA), IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)
 - *Computer Vision*: IEEE/CVF International Conference of Computer Vision (ICCV), European Conference of Computer Vision (ECCV), IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), International Conference on 3D Vision (3DV), IEEE/CVF Computer Vision and Pattern Recognition (CVPR), British Machine Vision Conference (BMVC)
 - *Graphics*: ACM Special Interest Group on Computer Graphics and Interactive Techniques (SIGGRAPH)
 - *Machine Learning*: Association for the Advancement of Artificial Intelligence (AAAI)

Invited Speaker

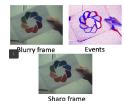
- Aug. 22, 2025 ■ Carnegie Mellon University (Invited by [Prof. Sebastian Scherer](#))
- Jul. 8, 2025 ■ University of Wisconsin-Madison (Invited by [Prof. Timothy Duff](#))
- Nov. 8, 2024 ■ University of Delaware (Invited by [Prof. Paul Huang](#))
- Jul. 10 2024 ■ Efficient, Data-driven Perception with Event Cameras, Omnipixel (Invited by [Dr. Bo Mu](#))
- May 9, 2024 ■ Kolloquium for GI-Dissertation Prize 2023, Schloss Dagstuhl (Invited by [Prof. Rüdiger Reischuk](#))
- Dec. 8 2023 ■ Efficient, Data-driven Perception with Event Cameras, Stanford (Invited by [Prof. Leonidas Guibas](#))
- Nov. 13 2023 ■ Efficient, Data-driven Perception with Event Cameras, University of Pennsylvania (Invited by [Prof. Kostas Daniilidis](#))
- Nov. 6 2023 ■ Efficient, Data-driven Perception with Event Cameras, MIT (Invited by [Prof. Luca Carlone](#))
- Efficient, Data-driven Perception with Event Cameras, MIT (Invited by [Prof. Sangbae Kim](#))
- Nov. 3 2023 ■ MIT (Invited by [Prof. Ramesh Raskar](#))
- Sept. 27 2023 ■ Adaptive and Efficient Perception with Event Cameras, Intitute for Neuroinformatics Seminar
- Sept. 19 2023 ■ Adaptive and Efficient Perception with Event Cameras, GCPR workshop on Scene Understanding for Autonomous Drone Delivery, University of Heidelberg
- Sept. 9 2023 ■ Efficient, Data-driven Perception with Event Cameras, DataFest 2023 in Yerevan, Armenia (Invited by [Dr. Martin Danelljan](#))
- Jun. 19 2023 ■ Efficient Event Processing with Geometric Deep Learning, CVPR 2023 Workshop on Event-based Vision (Invited by [Prof. Guillermo Gallego](#))
- Jun. 12 2023 ■ Event-based Vision in the era of Deep Learning: Challenges and Opportunities, University of California, Berkeley (Invited by [Prof. Jitendra Malik](#))
- Mar. 23 2022 ■ At the intersection of Machine Learning and Event-based Vision, Prophesee (Invited by [Prof. Christoph Posch](#))

Research Publications

Google Scholar Profile: <https://scholar.google.ch/citations?hl=en&user=FWpgbBsAAAAJ>

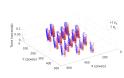
The * symbol indicates shared first authorship.

Journal Publications



Lei Sun, **Daniel Gehrig**, Christos Sakaridis, Mathias Gehrig, Jingyun Liang, Peng Sun, Zhijie Xu, Kaiwei Wang, Luc Van Gool, and Davide Scaramuzza. "A Unified Framework for Event-Based Frame Interpolation With Ad-Hoc Deblurring in the Wild". In: *IEEE Trans. Pattern Anal. Machine Intell.* 47.04 (2025), pp. 2265–2279. ⚡ DOI: [10.1109/TPAMI.2024.3510690](https://doi.org/10.1109/TPAMI.2024.3510690)

Links: [PDF](#), [Code](#) and [Datasets](#)



Mohammed Salah, Abdulla Ayyad, Muhammad Humais, **Daniel Gehrig**, Abdelqader Abusafieh, Lakmal Seneviratne, Davide Scaramuzza, and Yahya Zweiri. "E-Calib: A Fast, Robust, and Accurate Calibration Toolbox for Event Cameras". In: *IEEE Transactions on Image Processing (TIP)* 33 (2024), pp. 3977–3990. ⚡ DOI: [10.1109/TIP.2024.3410673](https://doi.org/10.1109/TIP.2024.3410673)

Links: [PDF](#), [Video](#), [Code](#)



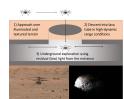
Daniel Gehrig and Davide Scaramuzza. "Low-latency Automotive Vision with Event Cameras". In: *Nature*. Vol. 629. 2024, pp. 1034–1040. ⚡ DOI: [10.1038/s41586-024-07409-w](https://doi.org/10.1038/s41586-024-07409-w)

Links: [PDF](#), [Video](#), [Dataset](#), [Code](#)



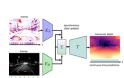
Nico Messikommer, **Daniel Gehrig**, Mathias Gehrig, and Davide Scaramuzza. "Bridging the Gap Between Events and Frames Through Unsupervised Domain Adaptation". In: *IEEE Robot. Autom. Lett. (RA-L)* 7.2 (2022), pp. 3515–3522. ⚡ DOI: [10.1109/LRA.2022.3145053](https://doi.org/10.1109/LRA.2022.3145053)

Links: [PDF](#), [Video](#), [Code](#)



Florian Mahlknecht, **Daniel Gehrig**, Jeremy Nash, Friedrich M. Rockenbauer, Benjamin Morrell, Jeff De-laune, and Davide Scaramuzza. "Exploring Event Camera-Based Odometry for Planetary Robots". In: *IEEE Robot. Autom. Lett. (RA-L)* 7.4 (2022), pp. 8651–8658. ⚡ DOI: [10.1109/LRA.2022.3187826](https://doi.org/10.1109/LRA.2022.3187826)

Links: [PDF](#), [Video](#), [Code](#), [Dataset](#)



Daniel Gehrig*, Michelle Rüegg*, Mathias Gehrig, Javier Hidalgo-Carrió, and Davide Scaramuzza. "Combining Events and Frames Using Recurrent Asynchronous Multimodal Networks for Monocular Depth Prediction". In: *IEEE Robot. Autom. Lett. (RA-L)*. vol. 6. 2. 2021, pp. 2822–2829. ⚡ DOI: [10.1109/LRA.2021.3060707](https://doi.org/10.1109/LRA.2021.3060707)

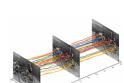
Links: [PDF](#), [Video](#), [Code](#), [Dataset](#)

NCCR Robotics Best Master Thesis Award



Mathias Gehrig, Willem Aarents, **Daniel Gehrig**, and Davide Scaramuzza. "DSEC: A Stereo Event Camera Dataset for Driving Scenarios". In: *IEEE Robot. Autom. Lett. (RA-L)* 6.3 (2021), pp. 4947–4954. ⚡ DOI: [10.1109/LRA.2021.3068942](https://doi.org/10.1109/LRA.2021.3068942)

Links: [PDF](#), [Video](#), [Code](#), [Dataset](#)

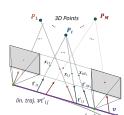


Daniel Gehrig, Henri Rebecq, Guillermo Gallego, and Davide Scaramuzza. "EKLT: Asynchronous Photometric Feature Tracking using Events and Frames". In: *Int. J. Comput. Vis. (IJCV)* 3 (2020). ⚡ DOI: [10.1007/s11263-019-01209-w](https://doi.org/10.1007/s11263-019-01209-w)

Links: [PDF](#), [Video](#), [Code](#), [Evaluation Code](#)

Invited journal extension

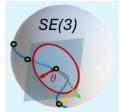
Peer-Reviewed Conference Papers



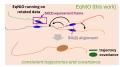
Hang Su, Yunlong Feng, **Daniel Gehrig**, Panfeng Jiang, Ling Gao, Xavier Lagorce, and Laurent Kneip. "A Linear N-Point Solver for Structure and Motion from Asynchronous Tracks". In: *Int. Conf. Comput. Vis. (ICCV)*. 2025

Links: [PDF](#), [Code](#)

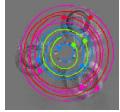
Highlight Presentation



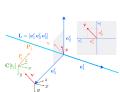
Royina Jayanth Karegoudra, Yinshuang Xu, Evangelos Chatzipantazis, Kostas Daniilidis, and **Daniel Gehrige**. “Neural Inertial Odometry from Lie Events”. In: *Robotics: Science and Systems (RSS)*. 2025
Links: [PDF](#), [Code](#)



Royina Karegoudra Jayanth*, Yinshuang Xu*, Ziyun Wang, Evangelos Chatzipantazis, Kostas Daniilidis, and **Daniel Gehrige**. “EqNIO: Subequivariant Neural Inertial Odometry”. In: *Int. Conf. on Learning Representations (ICLR)*. 2025
Links: [PDF](#), [Code](#), [OpenReview](#)



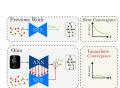
Friedhelm Hamann, **Daniel Gehrige**, Filbert Febryanto, Kostas Daniilidis, and Guillermo Gallego. “ETAP: Event-based Tracking of Any Point”. In: *IEEE Int. Conf. Comput. Vis. Pattern Recog. (CVPR)*. 2025
Links: [PDF](#), [Video](#), [Code](#)



Ling Gao, **Daniel Gehrige**, Hang Su, Davide Scaramuzza, and Laurent Kneip. “An N-Point Linear Solver for Line and Motion Estimation with Event Cameras”. In: *IEEE Int. Conf. Comput. Vis. Pattern Recog. (CVPR)*. IEEE. 2024, pp. 14596–14605. DOI: [10.1109/CVPR52733.2024.01383](https://doi.org/10.1109/CVPR52733.2024.01383)
Links: [Paper](#), [Code](#), [Video](#)
Oral Presentation (Top 0.78%)



Roberto Pellerito, Marco Cannici, **Daniel Gehrige**, Joris Belhadj, Olivier Dubois-Matra, Massimo Casasco, and Davide Scaramuzza. “Deep Visual Odometry with Events and Frames”. In: *IEEE/RSJ Int. Conf. Intell. Robot. Syst. (IROS)*. 2024
Links: [PDF](#), [Code and Datasets](#), [Video](#)

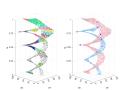


Asude Aydin, Mathias Gehrig, **Daniel Gehrige**, and Davide Scaramuzza. “A Hybrid ANN-SNN Architecture for Low-Power and Low-Latency Visual Perception”. In: *IEEE Int. Conf. Comput. Vis. Pattern Recog. Workshops (CVPRW)*. 2024, pp. 5701–5711. DOI: [10.1109/CVPRW63382.2024.00579](https://doi.org/10.1109/CVPRW63382.2024.00579)
Links: [PDF](#), [Code](#)

Winner of the University of Zurich Best Master Thesis Award.



Nikola Zubić*, **Daniel Gehrige***, Mathias Gehrig, and Davide Scaramuzza. “From Chaos comes Order: Ordering Event Representations for Object Recognition and Detection”. In: *Int. Conf. Comput. Vis. (ICCV)*. 2023, pp. 12800–12810
Links: [PDF](#), [Code](#), [Poster](#)



Ling Gao, Hang Su, **Daniel Gehrige**, Marco Cannici, Davide Scaramuzza, and Laurent Kneip. “A 5-Point Minimal Solver for Event Camera Relative Motion Estimation”. In: *Int. Conf. Comput. Vis. (ICCV)*. 2023, pp. 8015–8025. DOI: [10.1109/ICCV51070.2023.00739](https://doi.org/10.1109/ICCV51070.2023.00739)
Links: [PDF](#), [Video](#), [Poster](#), [Code](#)
Oral Presentation (Top 1.68%)



Benedek Forrai*, Takahiro Miki*, **Daniel Gehrige***, Marco Hutter, and Davide Scaramuzza. “Event-based Agile Object Catching with a Quadrupedal Robot”. In: *IEEE Int. Conf. Robot. Autom. (ICRA)*. 2023, pp. 12177–12183. DOI: [10.1109/ICRA48891.2023.10161392](https://doi.org/10.1109/ICRA48891.2023.10161392)
Links: [PDF](#), [Video](#), [Code](#)



N. Messikommer, S. Georgoulis, **Daniel Gehrige**, S. Tulyakov, J. Erbach, A. Bochicchio, Y. Li, and D. Scaramuzza. “Multi-Bracket High Dynamic Range Imaging with Event Cameras”. In: *IEEE Int. Conf. Comput. Vis. Pattern Recog. Workshops (CVPRW)*. 2022, pp. 546–556. DOI: [10.1109/CVPRW56347.2022.00070](https://doi.org/10.1109/CVPRW56347.2022.00070)
Links: [PDF](#), [Video](#)



Simon Schaefer*, **Daniel Gehrige***, and Davide Scaramuzza. “AEGNN: Asynchronous Event-based Graph Neural Networks”. In: *IEEE Int. Conf. Comput. Vis. Pattern Recog. (CVPR)* (2022), pp. 12361–12371. DOI: [10.1109/CVPR52688.2022.01205](https://doi.org/10.1109/CVPR52688.2022.01205)
Links: [PDF](#), [Video](#), [Code](#)



Stepan Tulyakov, Alfredo Bochicchio, **Daniel Gehrig**, Stamatis Georgoulis, Yuanyou Li, and Davide Scaramuzza. "Time Lens++: Event-based Frame Interpolation with Parametric Non-linear Flow and Multi-scale Fusion". In: *IEEE Int. Conf. Comput. Vis. Pattern Recog. (CVPR)* (2022), pp. 17734–17743. ⚡ DOI: [10.1109/CVPR52688.2022.01723](https://doi.org/10.1109/CVPR52688.2022.01723)

Links: [PDF](#), [Video](#), [Dataset](#)



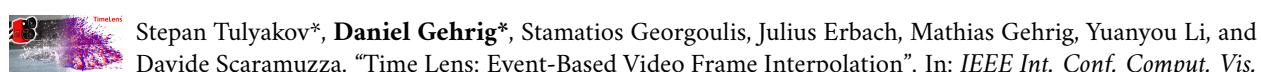
Zhaoning Sun*, Nico Messikommer*, **Daniel Gehrig**, and Davide Scaramuzza. "ESS: Learning Event-based Semantic Segmentation from Still Images". In: *European Conference on Computer Vision. (ECCV)* (2022), pp. 341–357. ⚡ DOI: [10.1007/978-3-031-19830-4_20](https://doi.org/10.1007/978-3-031-19830-4_20)

Links: [PDF](#), [Video](#), [Code](#), [Dataset](#)



Manasi Muglikar, Mathias Gehrig, **Daniel Gehrig**, and Davide Scaramuzza. "How to Calibrate Your Event Camera". In: *IEEE Int. Conf. Comput. Vis. Pattern Recog. Workshops (CVPRW)*. 2021, pp. 1403–1409. ⚡ DOI: [10.1109/CVPRW53098.2021.00155](https://doi.org/10.1109/CVPRW53098.2021.00155)

Links: [PDF](#), [Video](#), [Code](#),



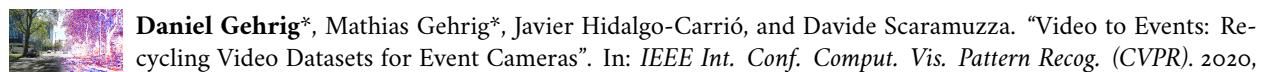
Stepan Tulyakov*, **Daniel Gehrig***, Stamatis Georgoulis, Julius Erbach, Mathias Gehrig, Yuanyou Li, and Davide Scaramuzza. "Time Lens: Event-Based Video Frame Interpolation". In: *IEEE Int. Conf. Comput. Vis. Pattern Recog. (CVPR)*. 2021, pp. 16155–16164. ⚡ DOI: [10.1109/CVPR46437.2021.01589](https://doi.org/10.1109/CVPR46437.2021.01589)

Links: [PDF](#), [Video](#), [Code](#), [Dataset](#)



Mathias Gehrig, Mario Millhausler, **Daniel Gehrig**, and Davide Scaramuzza. "E-RAFT: Dense Optical Flow from Event Cameras". In: *3D Vision (3DV)*. 2021, pp. 197–206. ⚡ DOI: [10.1109/3DV53792.2021.00030](https://doi.org/10.1109/3DV53792.2021.00030)

Links: [PDF](#), [Video](#), [Code](#), [Dataset](#)



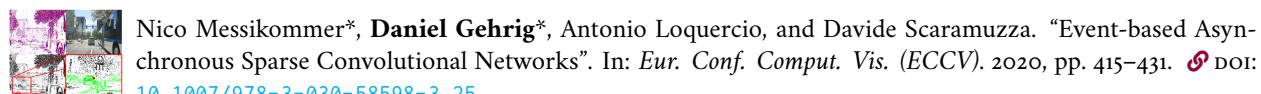
Daniel Gehrig*, Mathias Gehrig*, Javier Hidalgo-Carrió, and Davide Scaramuzza. "Video to Events: Recycling Video Datasets for Event Cameras". In: *IEEE Int. Conf. Comput. Vis. Pattern Recog. (CVPR)*. 2020, pp. 3583–3592. ⚡ DOI: [10.1109/CVPR42600.2020.00364](https://doi.org/10.1109/CVPR42600.2020.00364)

Links: [PDF](#), [Video](#), [Code](#)



Cedric Scheerlinck, Henri Rebecq, **Daniel Gehrig**, Nick Barnes, Robert E. Mahony, and Davide Scaramuzza. "Fast Image Reconstruction with an Event Camera". In: *IEEE Winter Conf. Appl. Comput. Vis. (WACV)*. 2020, pp. 156–163. ⚡ DOI: [10.1109/WACV45572.2020.9093366](https://doi.org/10.1109/WACV45572.2020.9093366)

Links: [PDF](#), [Video](#), [Code](#), [Dataset](#)



Nico Messikommer*, **Daniel Gehrig***, Antonio Loquercio, and Davide Scaramuzza. "Event-based Asynchronous Sparse Convolutional Networks". In: *Eur. Conf. Comput. Vis. (ECCV)*. 2020, pp. 415–431. ⚡ DOI: [10.1007/978-3-030-58598-3_25](https://doi.org/10.1007/978-3-030-58598-3_25)

Links: [PDF](#), [Video](#), [Code](#)



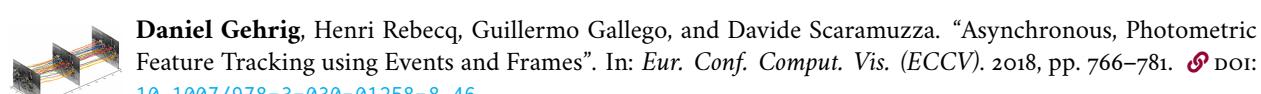
Javier Hidalgo-Carrió, **Daniel Gehrig**, and Davide Scaramuzza. "Learning Monocular Dense Depth from Events". In: *3D Vision (3DV)*. 2020, pp. 534–542. ⚡ DOI: [10.1109/3DV50981.2020.00063](https://doi.org/10.1109/3DV50981.2020.00063)

Links: [PDF](#), [Code](#), [Dataset](#)



Daniel Gehrig, Antonio Loquercio, Konstantinos G. Derpanis, and Davide Scaramuzza. "End-to-End Learning of Representations for Asynchronous Event-Based Data". In: *Int. Conf. Comput. Vis. (ICCV)*. 2019, pp. 5632–5642. ⚡ DOI: [10.1109/ICCV.2019.00573](https://doi.org/10.1109/ICCV.2019.00573)

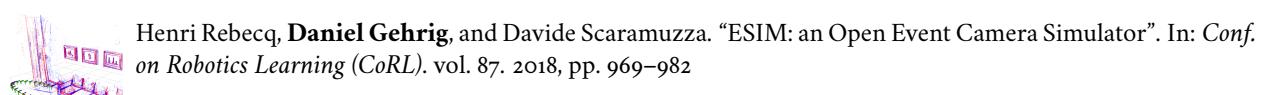
Links: [PDF](#), [Video](#), [Code](#)



Daniel Gehrig, Henri Rebecq, Guillermo Gallego, and Davide Scaramuzza. "Asynchronous, Photometric Feature Tracking using Events and Frames". In: *Eur. Conf. Comput. Vis. (ECCV)*. 2018, pp. 766–781. ⚡ DOI: [10.1007/978-3-030-01258-8_46](https://doi.org/10.1007/978-3-030-01258-8_46)

Links: [PDF](#), [Poster](#), [Video](#), [Oral Presentation](#), [Eval Code](#), [Tracking Code](#)

Oral Presentation (Top 2.4%)



Henri Rebecq, **Daniel Gehrig**, and Davide Scaramuzza. "ESIM: an Open Event Camera Simulator". In: *Conf. on Robotics Learning (CoRL)*. vol. 87. 2018, pp. 969–982

Links: [PDF](#), [Video](#), [Code](#)

Patents

- 2023  Stepan Tulyakov, Alfredo Bocicchio, Stamatis Georgoulis, Yuanyou Li, **Daniel Gehrig**, Mathias Gehrig, and Davide Scaramuzza, **IMAGE PROCESSING APPARATUS AND METHOD FOR GENERATING INTERPOLATED FRAME**, WO/2023/083467, Published 19.05.2023, [Link](#), [Paper](#)
- 2022  Stamatis Georgoulis, Nico Messikommer, Stepan Tulyakov, Julius Erbach, Alfredo Bochicchio, **Daniel Gehrig**, Yuanyou Li, and Davide Scaramuzza, **HIGH DYNAMIC RANGE IMAGING DEVICE AND METHOD OF GENERATING A HIGH DYNAMIC RANGE IMAGE**, WO/2023/083466, Published 19.05.2023, [Link](#), [Paper](#)
- 2022  Stepan Tulyakov, Stamatis Georgoulis, Yuanyou Li, **Daniel Gehrig**, Julius Erbach, Mathias Gehrig, and Davide Scaramuzza, **DEVICE AND METHOD FOR VIDEO INTERPOLATION**, WO/2022/096158, Published 12.05.2022, [Link](#), [Paper](#)

Employment History

- 2024-Current  **Postdoctoral Researcher**, GRASP Lab, University of Pennsylvania, USA
- Work on equivariance in event-based vision and neural inertial odometry.
- Advisors: Kostas Daniilidis
- 2018-2023  **Graduate Student Researcher**, Robotics and Perception Group, University of Zurich
- Advisor: Davide Scaramuzza
- 2018  **Research Assistant**, Robotics and Perception Group, University of Zurich, Switzerland
- Work on Deep Learning for Event Cameras
- Advisor: Davide Scaramuzza
- 2017 – 2018  **Software Developer**, F&P Robotics, Switzerland
- Service robotics in artificial intelligence and context management.
- 2016  **Research Assistant**, Particle Technology Lab, ETH Zurich, Switzerland
- Experimental testing and specific tasks.
- 2015  **Software Developer**, F&P Robotics, Switzerland
- Development of artificial intelligence and context management for service robots.
- 2014  **Teaching Assistant**, D-MATH department, ETH Zurich, Switzerland
- Linear Algebra and Analysis course for mechanical engineers at ETH Zurich
- 2014-Current  **Private Tutor**
- Physics, mathematics, and chemistry tutoring for high school and university students.
- 2013  **Engineer**, Prettli Automotive, USA
- Various workshop-related tasks.

References

Available on request