

ANDREAS GEIGER

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EMPLOYMENT

- University of Tübingen, Germany** *from March 2018 - now*
Full Professor, Department of Computer Science, Autonomous Vision Group
- MPI for Intelligent Systems, Tübingen, Germany** *from June 2016 - February 2018*
Independent Max-Planck Research Group Leader, Autonomous Vision Group
- ETH Zürich, Switzerland** *from September 2016 - February 2018*
Visiting Professor, Computer Vision and Geometry Group (interim for Marc Pollefeys)
- MPI for Intelligent Systems, Tübingen, Germany** *June 2013 - May 2016*
Research Scientist & Group Leader, Perceiving Systems Department
- Karlsruhe Institute of Technology, Germany** *September 2008 - May 2013*
Research and Teaching Assistant, Department of Measurement and Control Systems

EDUCATION

- Karlsruhe Institute of Technology, Germany** *September 2008 - April 2013*
Ph.D. in Computer Vision, Department of Measurement and Control Systems
Ph.D. Thesis: Probabilistic Models for 3D Urban Scene Understanding from Movable Platforms
Advisors: Christoph Stiller, Raquel Urtasun
Grade: 1.0/1.0 (awarded with distinction)
- Massachusetts Institute of Technology, USA** *July 2008*
Master Thesis: Human Body Tracking with Rank Priors for Non-Linear Dimensionality Reduction
Advisors: Trevor Darrell, Raquel Urtasun, Rainer Stiefelhagen
Grade: 1.0/1.0
- Ecole Polytechnique Fédérale de Lausanne, Switzerland** *February 2006*
Bachelor Thesis: Automatic Multiple Camera Calibration
Advisors: Pascal Fua, Vincent Lepetit
Grade: 1.0/1.0
- Karlsruhe Institute of Technology, Germany** *October 2003 - July 2008*
Department of Computer Science and Mathematics
Computer Science: Diploma
Grade: 1.0/1.0 (awarded with distinction, ranked #4/247)

INTERNATIONAL AND RESEARCH EXPERIENCE

- Visiting Researcher** *June - July 2010, July 2011, June 2012*
TTI Chicago (with Raquel Urtasun)
- Visiting Researcher** *March - May 2010*
ETH Zürich (with Marc Pollefeys)
- Research Assistant** *September 2008 - February 2013*
Karlsruhe Institute of Technology (with Christoph Stiller)
- Visiting Student** *February - July 2008*
Massachusetts Institute of Technology (with Trevor Darrell)
- Visiting Student** *September 2005 - February 2006*
Ecole Polytechnique Fédérale de Lausanne (with Pascal Fua and Vincent Lepetit)

TEACHING EXPERIENCE

University of Tübingen: LLM Research Assistants Seminar (16 students)	<i>2025</i>
University of Tübingen: Autonomous Vision Seminar (16 students)	<i>2022 - now</i>
University of Tübingen: 3D Vision Seminar (16 students)	<i>2021 - now</i>
University of Tübingen: Computer Vision Lecture (100 students)	<i>2021 - now</i>
University of Tübingen: Deep Learning Lecture (250 students)	<i>2020 - now</i>
University of Tübingen: Self-driving Cars Lecture (60 students)	<i>2018 - now</i>
University of Tübingen: ML in Graphics and Vision Lecture (50 students)	<i>2018 - 2020</i>
ETH Zürich: Computer Vision Lecture (170 students)	<i>2016 - 2017</i>
ETH Zürich: 3D Vision Lecture (50 students)	<i>2017</i>
University of Tübingen: Graphical Models in Computer Vision Lecture (30 students)	<i>2014 - 2016</i>
KIT: Measurement and Control Systems Interim Lecture (600 students)	<i>2010</i>
KIT: Measurement Systems: Practical Courses Teaching Assistant (groups of 6 students)	<i>2008 - 2010</i>

SUPERVISION OF PH.D. STUDENTS

Stefano Esposito	Katja Schwarz (co-founder of SpAItial)
Kashyap Chitta	Songyou Peng (now at Google)
Christina-	Xu Chen (now at Google)
Ourania Tze	Axel Sauer (co-founder of Black Forest Labs)
Christian Reiser	Carolin Schmitt (now at MPI-IS Tübingen)
Chugiao Li	Michael Niemeyer (now at Google)
Haofei Xu	Niklas Hanselmann (now at Daimler)
Daniel Dauner	Stefan Baur (now at Daimler)
Katrin Renz	Despoina Paschalidou (now PostDoc at Stanford University)
Zehao Yu	Michael Oechsle (now at Google)
Zijian Dong	Peidong Liu (now assistant professor at Westlake University)
Bozidar Antic	Aseem Behl (now PostDoc at University of Tübingen)
Naama Pearl	Lars Mescheder (now at Apple)
Markus Flicke	Joel Janai (now at Bosch)
Shaofei Wang	Benjamin Coors (now at Bosch)
Bernhard Jaeger	Fatma Güney (now assistant professor at Koç University)
Haiwen Huang	
Gege Gao	
Haoyu He	
Takeru Miyato	

SUPERVISION OF POSTDOCTORAL RESEARCHERS

Dr. Anpei Chen (now assistant professor at Westlake University)
Dr. Apratim Bhattacharyya (now reseacher at Qualcomm)
Dr. Joo Ho Lee (now assistant professor at Sogang University)
Dr. Yiyi Liao (now assistant professor at Zhejiang University)
Dr. Eshed Ohn-Bar (now assistant professor at Boston University)
Dr. Osman Ulusoy (now senior scientist at Microsoft)
Dr. Simon Donné (now researcher at Amazon)

AWARDS AND SCHOLARSHIPS

CVPR Best Student Paper Award	<i>June 2024</i>
IEEE / CVF Computer Vision and Pattern Recognition Conference (CVPR), Seattle	
10-Year Impact Award	<i>June 2024</i>
Sage Publications Ltd	
3DV Best Paper Award, Honorable Mention	<i>March 2024</i>
International Conference on 3D Vision, Davos, Switzerland	
nuPlan Challenge Winner	<i>June 2023</i>
International Conference on Computer Vision and Pattern Recognition, Vancouver	
Longuet-Higgins Prize	<i>June 2022</i>
IEEE / CVF Computer Vision and Pattern Recognition Conference (CVPR), New Orleans	
Mark Everingham Prize	<i>October 2021</i>
International Conference on Computer Vision, Virtual	
Facebook Research Award	<i>October 2021</i>
Facebook Reality Labs	
Teaching Award for Lecture “Computer Vision”	<i>July 2021</i>
Department of Computer Science, University of Tübingen	
CVPR Best Paper Award	<i>June 2021</i>
IEEE / CVF Computer Vision and Pattern Recognition Conference (CVPR), Virtual	

AI2000 - 100 Most Influential Scholars in Computer Vision Tsinghua AMiner	<i>April 2020+2021</i>
Junge Elite - Top 40 unter 40 Capital Business Journal, Gruner + Jahr, Germany	<i>September 2019</i>
ERC Starting Grant European Research Council (ERC)	<i>August 2019</i>
CVPR Best Paper Finalist (2 Papers) International Conference on Computer Vision and Pattern Recognition, Long Beach, USA	<i>June 2019</i>
IEEE PAMI Young Researcher Award International Conference on Computer Vision and Pattern Recognition, Salt Lake City, USA	<i>June 2018</i>
Outstanding Reviewer Award Neural Information and Processing Systems, Long Beach, USA	<i>December 2017</i>
3DV Best Student Paper Award International Conference on 3D Vision, Qingdao, China	<i>October 2017</i>
German Pattern Recognition Prize German Conference on Pattern Recognition, Basel, Switzerland	<i>September 2017</i>
Heinz Maier-Leibnitz Prize Deutsche Forschungsgemeinschaft (DFG)	<i>May 2017</i>
Outstanding Reviewer Award International Conference on Computer Vision and Pattern Recognition, Las Vegas, USA	<i>June 2016</i>
3DV Best Paper Award International Conference on 3D Vision, Lyon, France	<i>October 2015</i>
GCPR Best Paper Award German Conference on Pattern Recognition, Aachen, Germany	<i>October 2015</i>
Associate Member of the Max Planck ETH Center for Learning Systems MPI for Intelligent Systems in Tübingen and ETH Zürich	<i>2015-2016</i>
Elected Ombudsperson at the Intelligent Systems Institute Tübingen Max Planck Institute for Intelligent Systems, Tübingen, Germany	<i>2015-2018</i>
KIT Doctoral Award (Best Ph.D. Thesis) Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany	<i>February 2015</i>
Ernst-Schoemperlen Prize (Research in Mobility Systems) Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany	<i>November 2014</i>
CVPR Best Paper Runner Up Award International Conference on Computer Vision and Pattern Recognition, Portland, USA	<i>June 2013</i>
1st place in the GCDC competition with Team AnnieWAY Grand Cooperative Driving Challenge (GCDC), Helmond, Netherlands	<i>May 2011</i>
IV Best Dissertation Proposal Award Intelligent Vehicles Symposium, San Diego, USA	<i>June 2010</i>
DAAD and MIT scholarships Massachusetts Institute of Technology	<i>February - July 2008</i>
ERASMUS scholarship Ecole Polytechnique Fédérale de Lausanne	<i>September 2005 - February 2006</i>
Award of the German Physical Association	<i>June 2002</i>
Ferry Porsche Award	<i>June 2002</i>

INVITED TALKS AND KEYNOTES

Naver Labs Workshop: Virtual invited talk	25.11.2021
Qualcomm-UvA Deep Vision Seminar: Virtual invited talk	06.10.2021
KAIST Seminar: Virtual invited talk	27.09.2021
Korean Conference on Computer Vision: Keynote talk	09.08.2021
Toyota Research Institute Seminar: Virtual invited talk	21.07.2021
3D Geometry and Vision Seminar: Virtual invited talk	21.04.2021
Stanford SCIEN Seminar: Virtual invited talk	14.04.2021
AIDA AI Excellence Series: Virtual invited talk	21.03.2021
UC San Diego Vision Seminar: Virtual invited talk	15.01.2021
WACV Workshop on Autonomous Driving: Virtual invited talk	09.01.2021
IJCAI Workshop on 3D Vision: Virtual invited talk	08.01.2021
University of Hong Kong Seminar: Virtual invited talk	07.01.2021
Carnegie Mellon University VASC Seminar: Virtual invited talk	31.08.2020
ECCV Workshops: 3 invited keynote talks (virtual)	08.2020
CVPR Workshops: 8 invited keynote talks (virtual)	06.2020
Oxford Vision Group Seminar: Oxford, UK	27.04.2020
International Computer Vision Summer School: Sicily, Italy	07.07.2019
Amazon: Seattle, USA	18.06.2019
CVPR Workshop on Uncertainty and Robustness: Long Beach, USA	17.06.2019
CVPR Workshop on Autonomous Driving: Long Beach, USA	17.06.2019
CVPR Robotic Vision Workshop: Long Beach, USA	17.06.2019
CVPR CARLA Workshop: Long Beach, USA	16.06.2019
Autonomous University of Barcelona: Barcelona, Spain	21.05.2019
Chalmers AI Research Center Inauguration: Gothenburg, Sweden	05.03.2019
International Max Planck Research School: Tübingen, Germany	31.01.2019
ETH Zürich, Institute of Neuroinformatics: Zürich, Switzerland	25.10.2018
ETH Zürich, Institute of Neuroinformatics: Zürich, Switzerland	25.10.2018
Continental Round Table: Lindau, Germany	20.09.2018
ECCV Vision-based Navigation for Autonomous Driving: Munich, Germany	09.09.2018
ECCV Joint COCO and Mapillary Workshop: Munich, Germany	09.09.2018
ECCV Workshop on Autonomous Navigation: Munich, Germany	08.09.2018
Intel Network on Intelligent Systems: Munich, Germany	05.09.2018
Bosch Center for Artificial Intelligence: Renning, Germany	24.07.2018
IMPRS Summer School: Bad Überkingen, Germany	22.06.2018
CVPR Workshop on Visual Odometry: Salt Lake City, USA	22.06.2018
CVPR Workshop on Vision with Biased or Scarce Data: Salt Lake City, USA	22.06.2018
CVPR Workshop on Robotic Vision: Salt Lake City, USA	22.06.2018
CVPR Workshop on Autonomous Driving: Salt Lake City, USA	18.06.2018
CVPR Robust Vision Challenge: Salt Lake City, USA	18.06.2018
Baidu ApolloScape Workshop: Beijing, China	23.04.2018
DALI Workshop on Autonomous Driving: Lanzarote, Spain	03.04.2018
IST Austria: Klosterneuburg, Austria	30.11.2017
TU Graz: Graz, Austria	24.11.2017
ICCV Workshop on Learning to See from 3D Data: Venice, Italy	28.10.2017
ICCV Workshop on Dynamic Scene Understanding: Venice, Italy	23.10.2017
Bosch Chassis Control Systems: Leonberg, Germany	19.10.2017
NVIDIA GTC Europe: Munich, Germany	12.10.2017
Microsoft Research Cambridge: Cambridge, England	26.09.2017
GCPR Award Lecture: Basel, Switzerland	12.09.2017
BMVC Tutorial Lecture: London, England	04.09.2017
Intel NIS Network: Munich, Germany	30.08.2017
Disney Research Zürich: Zürich, Switzerland	25.09.2017
Summer School on Cooperative Interacting Automobiles: Schwäb.-Gmünd	09.08.2017
CVPR Workshop on Autonomous Driving: Honolulu, Hawaii, USA	20.07.2017

Summer School on Learning Systems: ETH Zürich, Switzerland	06.07.2017
Robert Bosch GmbH: Bosch CC Leadership Meeting, Budapest, Hungary	10.05.2017
TU München: Computer Vision Group	31.03.2017
University of Maryland: CVPR Area Chair Workshop	27.02.2017
Princeton University: Computer Graphics and Vision Lab	24.02.2017
National University of Singapore: Singapore	25.11.2016
ETH Zürich: Faculty Lunch Seminar	24.10.2016
ECCV Workshop on Multi-target Tracking: Amsterdam, Netherlands	09.10.2016
ETH Zürich: Computer Vision and Geometry Lab	12.05.2016
University Hannover: Ringvorlesung Navigation und Umweltrobotik	11.05.2016
TU Dresden: Computer Vision Lab	22.04.2016
MPI Tübingen: Special Symposium on Intelligent Systems	16.03.2016
Scenes from Video Workshop: Colchagua Valley, Chile	17.12.2015
ICCV Workshop on Autonomous Driving: Santiago, Chile	12.12.2015
Google Research: Mountain View, USA	25.11.2015
Robert Bosch GmbH: Leonberg, Germany	23.11.2015
Dagstuhl Seminar: Dagstuhl, Germany	09.11.2015
Daimler AG: Böblingen, Germany	27.08.2015
RSS Workshop on SLAM: Rome, Italy	17.07.2015
RWTH Aachen: GCPR PC Meeting	09.07.2015
CVPR Workshop on Performance Metrics: Boston, USA	11.06.2015
Karlsruhe Institute of Technology: Department of Economics and Management	30.04.2015
MPI Tübingen: ETH/MPI Vision Workshop	25.11.2014
MPI Stuttgart: Tag der offenen Tür	05.04.2014
ETH Zürich: Photogrammetry and Remote Sensing Lab	27.03.2014
Robert Bosch GmbH: Fahrzeugsicherheits- und Assistenzsysteme, Stuttgart	18.06.2013
Karlsruhe Institute of Technology: Ringvorlesung des Graduiertenkolleg 1194	03.05.2013
University of Illinois at Urbana-Champaign: Department of Computer Science	30.11.2012
New York University: Vision, Learning and Graphics Group	29.11.2012
Carnegie Mellon University: The Robotics Institute	28.11.2012
MIT: Computer Science and Artificial Intelligence Laboratory	27.11.2012
MPI Tübingen: Perceiving Systems Department	05.11.2012
TU Darmstadt: Interactive Graphics Systems Group	01.11.2012
RWTH Aachen: UMIC Research Centre Computer Vision Group	26.10.2012
ETH Zürich: Computer Vision and Geometry Lab	22.10.2012
University of Oxford: Robotics Research Group	24.09.2012
CVPR Workshop on Point Cloud Processing: Providence, USA	16.06.2012
Toyota Technological Institute at Chicago	19.07.2011
Robert Bosch GmbH: Computer Vision Systems, Hildesheim	14.01.2011
MPI Saarbrücken: Computer Vision and Multimodal Computing Department	06.12.2010
ETH Zürich: Computer Vision and Geometry Lab	27.05.2010

PROFESSIONAL SERVICE / COMMISSIONS OF TRUST

ASSOCIATE EDITOR: PAMI 2016-now, IJCV 2017-now

PROGRAM CHAIR: DAGM GCPR 2020, CVPR 2023

AREA CHAIR: ECCV 2016, CVPR 2017, CVPR 2018, ECCV, 2018, ICCV 2019, CVPR 2020

PROGRAM COMMITTEE: NIPS 2012-now, ACCV 2012-now, IV 2010-now, ICCV 2013-now, ECCV 2014-now, CVPR 2013-now, GCPR 2015-now

REVIEWER: NIPS, CVPR, ECCV, ICCV, GCPR, ACCV, PAMI, IJCV, IJRR, ICRA, IROS, IV, ITSC, TITS

MEMBER of Minister Bauer’s delegation to Paris regarding French-German AI partnership, 2018
FELLOW of the European Laboratory of Learning and Intelligent Systems (ELLIS), 2019-now
BOARD of the European Laboratory of Learning and Intelligent Systems (ELLIS), 2019-2022
COORDINATOR of the ELLIS PhD program 2019-2024
STEERING BOARD of the Max Planck ETH Center for Learning Systems, 2018-2021
HEAD of the department of computer science at the University of Tübingen, 2020-now

ORGANIZATION

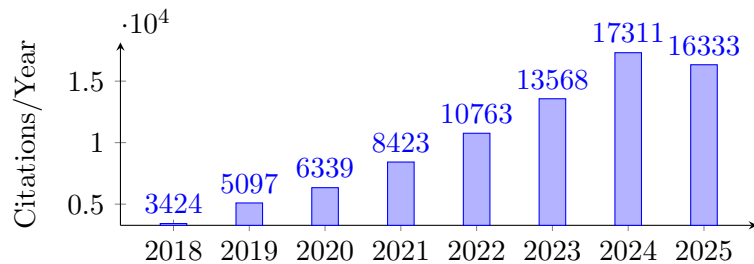
Conference on Computer Vision and Pattern Recognition (CVPR) 2023 Program Chair jointly with Vladlen Koltun, Ross Girshick and Svetlana Lazebnik	<i>June 2023</i>
CVPR 2021: Robust Video Scene Understanding Jointly with Jonathon Luiten, Bastian Leibe, Laura Leal-Taixé, Fisher Yu and Deva Ramanan	<i>June 2021</i>
CVPR 2021: Workshop on Autonomous Driving Jointly with Andrea Vedaldi, Dragomir Anguelov, Fisher Yu, Luc Van Gool and John Leonard	<i>June 2021</i>
German Conference on Pattern Recognition (GCPR) 2020 General Chair and Program Chair	<i>September 2020</i>
ECCV 2020: Robust Vision Challenge Jointly with Oliver Zendel, Daniel Scharstein, Vladlen Koltun and others	<i>August 2020</i>
CVPR 2020: Workshop on Benchmarking Multi-Target Tracking Jointly with Bastian Leibe, Laura Leal-Taixé, Aljosa Osep and Paul Voigtländer	<i>June 2020</i>
CVPR 2020: Workshop on Scalability in Autonomous Driving Jointly with Yuning Chai, Henrik Kretzschmar and Dragomir Anguelov	<i>June 2020</i>
CVSS 2019: Computational Vision Summer School Jointly with Hendrikje Nienborg, Siyu Tang and Bei Xiao	<i>July 2019</i>
ECCV 2018: Workshop on Autonomous Driving Jointly with Peng Wang, Ruigang Yang, Hongdong Li and Alan Yuille	<i>September 2018</i>
CVPR 2018: Workshop on Autonomous Driving Jointly with Ruigang Yang, Jose Alvarez and Fisher Yu	<i>June 2018</i>
CVPR 2018: Robust Vision Challenge Jointly with C. Rother, M. Niessner, M. Pollefeys, D. Scharstein and T. Sattler	<i>June 2018</i>
DALI 2018: Workshop on Autonomous Driving Jointly with Andrew Blake	<i>June 2018</i>
ECCV 2014: Reconstruction Meets Recognition Challenge Jointly with R. Urtasun, R. Fergus, D. Hoiem, A. Torralba, P. Lenz, N. Silberman, J. Xiao, S. Fidler	<i>September 2014</i>
ACCV 2014: Intelligent Vehicle With Vision Technology Jointly with Xue Mei, Michael James, Yi-Ping Hung, Fatih Porikli and Danil Prokhorov	<i>September 2014</i>
IV 2014: Workshop on Benchmarking Lane Detection Algorithms Jointly with Chunzhao Guo, José M. Álvarez and Jannick Fritsch	<i>June 2014</i>
ICCV 2013: Reconstruction Meets Recognition Challenge Jointly with R. Urtasun, R. Fergus, D. Hoiem, A. Torralba, P. Lenz, N. Silberman, J. Xiao, S. Fidler	<i>December 2013</i>
GCPR 2013: Special Session on Robust Optical Flow Jointly with Andrés Bruhns, Uwe Franke and Daniel Kondermann	<i>September 2013</i>

PUBLICATIONS

SCIENTIFIC IMPACT

CITATION INDICES

Citations: 88880
h-Index: 106
i10-Index: 177
Source: scholar.google.com
Accessed: 18.11.2025



PUBLICATIONS

All publications are peer-reviewed conference or journal publications and top tier in the respective field (computer vision, machine learning, robotics, intelligent vehicles). ICML, NIPS, ICCV, ECCV and CVPR are highly competitive with acceptance rates of less than 30%. CVPR is the most highly cited IEEE conference with the highest impact in Engineering and Computer Science. CVPR, ECCV, ICCV and NeurIPS are the four most impactful conferences in all of computer science¹. The **most important publications** as well as **award papers** are marked with an asterisk.

JOURNAL PAPERS

Steffen Eger, Yong Cao, Jennifer D'Souza, Andreas Geiger, Christian Greisinger, Stephanie Gross, Yufang Hou, Brigitte Krenn, Anne Lauscher, Yizhi Li, Chenghua Lin, Nafise Sadat Moosavi, Wei Zhao, and Tristan Miller. Transforming science with large language models: A survey on AI-assisted scientific discovery, experimentation, content generation, and evaluation. *arXiv.org*, 2502.05151, 2025.

Xiao Fu, Shangzhan Zhang, Tianrun Chen, Yichong Lu, Xiaowei Zhou, Andreas Geiger, and Yiyi Liao. Panopticerf-360: Panoramic 3d-to-2d label transfer in urban scenes. *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, 2025.

Yuanbo Yang, Yujun Shen, Yue Wang, Andreas Geiger, and Yiyi Liao. Urbangen: Urban generation with compositional and controllable neural fields. *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, 2025.

Niklas Hanselmann, Simon Doll, Marius Cordts, Hendrik P. A. Lensch, and Andreas Geiger. EM-PERRO: a flexible generative perception error model for probing self-driving planners. *IEEE Robotics and Automation Letters (RA-L)*, 2025.

Frederik Nolte, Andreas Geiger, Bernhard Schölkopf, and Ingmar Posner. Is single-view mesh reconstruction ready for robotics? *arXiv.org*, 2505.17966, 2025.

Bernhard Jaeger and Andreas Geiger. *An Invitation to Deep Reinforcement Learning*, volume 7. Foundations and Trends in Optimization, 2024.

Li Chen, Penghao Wu, Kashyap Chitta, Bernhard Jaeger, Andreas Geiger, and Hongyang Li. End-to-end autonomous driving: Challenges and frontiers. *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, 2024.

¹<http://www.guide2research.com/topconf/>

- Carolin Schmitt, Bozidar Antic, Andrei Neculai, Joo Ho Lee, and Andreas Geiger. Towards scalable multi-view reconstruction of geometry and materials. *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, 2023.
- Xu Chen, Tianjian Jiang, Jie Song, Max Rietmann, Andreas Geiger, Michael J. Black, and Otmar Hilliges. Fast-snarf: A fast deformer for articulated neural fields. *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, 2023.
- Kashyap Chitta, Aditya Prakash, Bernhard Jaeger, Zehao Yu, Katrin Renz, and Andreas Geiger. Transfuser: Imitation with transformer-based sensor fusion for autonomous driving. *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, 2023.
- Haofei Xu, Jing Zhang, Jianfei Cai, Hamid Rezatofighi, Fisher Yu, Dacheng Tao, and Andreas Geiger. Unifying flow, stereo and depth estimation. *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, 2023.
- Liangchen Song, Anpei Chen, Zhong Li, Zhang Chen, Lele Chen, Junsong Yuan, Yi Xu, and Andreas Geiger. Nerfplayer: Streamable dynamic scene representation with decomposed neural radiance fields. *IEEE Transactions on Visualization and Computer Graphic (TVCG)*, 2023.
- Yiyi Liao, Jun Xie, and Andreas Geiger. Kitti-360: A novel dataset and benchmarks for urban scene understanding in 2d and 3d. *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, 2022.
- Marissa Weis, Kashyap Chitta, Yash Sharma, Wieland Brendel, Matthias Bethge, Andreas Geiger, and Alexander Ecker. Benchmarking unsupervised object representations for video sequences. *Journal of Machine Learning Research (JMLR)*, 22(183):1–61, 2021.
- Lina Liu, Yiyi Liao, Yue Wang, Andreas Geiger, and Yong Liu. Learning steering kernels for guided depth completion. *IEEE Trans. on Image Processing (TIP)*, 30:2850–2861, 2021.
- Jonathon Luiten, Aljosa Osep, Patrick Dendorfer, Philip Torr, Andreas Geiger, Laura Leal-Taixe, and Bastian Leibe. Hota: A higher order metric for evaluating multi-object tracking. *International Journal of Computer Vision (IJCV)*, 2020.
- Peidong Liu, Joel Janai, Marc Pollefeys, Torsten Sattler, and Andreas Geiger. Self-supervised linear motion deblurring. *IEEE Robotics and Automation Letters (RA-L)*, 5(2):2475–2482, 2020.
- David Stutz and Andreas Geiger. Learning 3d shape completion under weak supervision. In *International Journal of Computer Vision (IJCV)*, 2018.
- AlhaijaandHassan, MustikovelaandSiva, MeschederandLars, GeigerandAndreas, and RotherandCarsten. Augmented reality meets computer vision: Efficient data generation for urban driving scenes. *International Journal of Computer Vision (IJCV)*, 126(9):961–972, 2018.
- Moritz Menze, Christian Heipke, and Andreas Geiger. Object scene flow. *ISPRS Journal of Photogrammetry and Remote Sensing (JPRS)*, 140:60–76, 2018.
- Joel Janai, Fatma Güney, Aseem Behl, and Andreas Geiger. Computer vision for autonomous vehicles: Problems, datasets and state-of-the-art. *arXiv.org*, 1704.05519, 2017.
- * Marcus A. Brubaker, Andreas Geiger, and Raquel Urtasun. Map-based probabilistic visual self-localization. *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, 38(4):652–665, 2016.

* Andreas Geiger, Martin Lauer, Christian Wojek, Christoph Stiller, and Raquel Urtasun. 3D traffic scene understanding from movable platforms. *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, 36(5):1012–1025, 2014.

Andreas Geiger, Philip Lenz, Christoph Stiller, and Raquel Urtasun. Vision meets robotics: The KITTI dataset. *International Journal of Robotics Research (IJRR)*, 32(11):1231–1237, 2013.

Andreas Geiger, Martin Lauer, Frank Moosmann, Benjamin Ranft, Holger Rapp, Christoph Stiller, and Julius Ziegler. Team annieway’s entry to the grand cooperative driving challenge 2011. *IEEE Trans. on Intelligent Transportation Systems (TITS)*, 13(3):1008–1017, September 2012.

CONFERENCE PAPERS

Bartłomiej Baranowski, Stefano Esposito, Patricia Gschößmann, Anpei Chen, and Andreas Geiger. Conegs: Error-guided densification using pixel cones for improved reconstruction with fewer primitives. In *Proc. of the International Conf. on 3D Vision (3DV)*, 2026.

Jiazhi Yang, Kashyap Chitta, Shenyuan Gao, Long Chen, Yuqian Shao, Xiaosong Jia, Hongyang Li, Andreas Geiger, Xiangyu Yue, and Li Chen. Resim: Reliable world simulation for autonomous driving. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2025.

Xingyu Chen, Yue Chen, Yuliang Xiu, Andreas Geiger, and Anpei Chen. Easi3r: Estimating disentangled motion from dust3r without training. In *Proc. of the IEEE International Conf. on Computer Vision (ICCV)*, 2025.

Haiwen Huang, Anpei Chen, Volodymyr Havrylov, Andreas Geiger, and Dan Zhang. Loftup: Learning a coordinate-based feature upsampler for vision foundation models. In *Proc. of the IEEE International Conf. on Computer Vision (ICCV)*, 2025.

Zijian Dong, Longteng Duan, Jie Song, Michael J. Black, and Andreas Geiger. Moga: 3d generative avatar prior for monocular gaussian avatar reconstruction. In *Proc. of the IEEE International Conf. on Computer Vision (ICCV)*, 2025.

Bernhard Jaeger, Daniel Dauner, Jens Beißwenger, Simon Gerstenecker, Kashyap Chitta, and Andreas Geiger. Carl: Learning scalable planning policies with simple rewards. In *Proc. Conf. on Robot Learning (CoRL)*, 2025.

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