

# Francis Engelmann CURRICULUM VITAE

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## CURRENT APPOINTMENTS

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- **ETH Zurich**, Switzerland. 10/2021 - present  
Postdoctoral Research Fellow (Prof. Dr. Marc Pollefeys)
- **Google**, Zurich, Switzerland. 10/2022 - present  
Visiting Researcher (PD Dr. Federico Tombari)

## EDUCATION

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- **Ph.D. Computer Vision**, RWTH Aachen University, Germany 06/2014 - 08/2021  
Thesis topic: *“3D Scene Understanding on Point Clouds”* (Examination 16.08.2021)  
Committee: Prof. Dr. Bastian Leibe, Prof. Dr. Siyu Tang, Prof. Dr. Leif Kobbelt
- **M.Sc. Computer Science**, RWTH Aachen University, Germany 10/2011 - 01/2014  
Minor: Electrical Engineering  
Thesis topic: *“Multiple Target Tracking for Marker-less Augmented Reality”*  
Committee: Prof. Dr. Bastian Leibe, Prof. Dr. Leif Kobbelt
- **B.Sc. Computer Science**, RWTH Aachen University, Germany 10/2008 - 10/2011  
Minor: Electrical Engineering  
Thesis topic: *“FabScan: Affordable 3D Laser Scanning of Physical Objects”*  
Committee: Prof. Dr. Jan Borchers, Prof. Dr. Stefan Kowalewski

## RESEARCH AND INDUSTRY EXPERIENCE

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- **Google Research**, PhD Research Intern, Zurich, Switzerland 06/2020 - 12/2020  
Topic: Realistic Multi-object 3D Reconstruction from a Single Image (published at CVPR 2021)  
Mentors: Konstantinos Rematas, Vittorio Ferrari
- **Google X** (now Intrinsic), PhD Research Intern, Munich, Germany 06/2019 - 11/2019  
Topic: Instance Semantic Segmentation and Object Detection in 3D Scenes (published at CVPR 2020)  
Mentors: Martin Bokeloh, Alireza Fathi, Matthias Nießner
- **Apple Inc.** 3D Vision Intern, Sunnyvale, CA, USA 04/2018 - 08/2018  
Research and development of deep learning techniques for large-scale point cloud processing

## ACADEMIC ACTIVITIES

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- 3DV 2024: Website Chair [3dvconf.github.io/2024](https://3dvconf.github.io/2024)
- AAAI 2024, 2023: Senior Program Committee
- WACV 2023: Area Chair
- CSG 2023: Mentor at the [Computer Science for Girls Workshop](#)
- ICCV 2023: Workshop organizer [OpenSun3D](#) on Open-Vocabulary 3D Scene Understanding.
- ECCV 2022: Workshop co-organizer [Human Body, Hands, and Activities from Egocentric Cameras](#)
- ECCV 2022: Demo co-organizer [Interactive Object Segmentation in 3D Point Clouds](#)
- ELLIS 2021: Evaluator in the pre-screening process for the ELLIS PhD Program
- NeuRIPS 2021: [Local Meetup](#) co-organizer at ETH AI Center (30 posters, ~120 guests)
- 3DV 2021: Demo organizer [Mix3D: Out-Of-Context Data Augmentation](#)
- Conference Reviewer: CVPR (2023, 2022, 2021, 2018), ECCV (2022, 2020), ICCV (2021, 2023), NeurIPS (2023, 2022, 2021, 2020), ICLR (2022), 3DV (2024, 2022), ICRA (2018, 2020), IROS (2017)
- Journal Reviewer: TPAMI (2021), IJCV (2020), ISPRS (2020), IEEE T-RO (2020), IEEE RA-L (2018, 2020, 2023)

## INVITED TALKS

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- Invited keynote speaker at the ICCV'23 [CVAAD Workshop](#) Host: Prof. Khademi Seyran, 2023
- Invited speaker at the ETH AI Center Host: Dr. Alexander Ilic, 2023
- Invited speaker and panelist at CVPR'22 [ScanNet Workshop](#) Host: Prof. Angela Dai, 2022

- Invited talk at Google Zurich Host: Dr. Simon Lynen, 2022
- Invited speaker at [ETH PhD Seminar](#), Zurich Host: Dr. Daniel Barath, 2022
- Invited talk at Google AR, Zurich Host: Dr. Federico Tombari, 2022
- Invited speaker at ETH AI Center PostDoc Symposium Host: Dr. Alexander Ilic, 2021
- Invited speaker at Stanford Geometric Computation Group Host: Prof. Leonidas Guibas, 2021
- Invited speaker at Max-Panck-Institute, University of Tübingen Host: Prof. Gerard Pons-Moll, 2021
- Invited talk at CVPR'20 ScanNet Workshop Host: Prof. Angela Dai, Prof. Manolis Savva, 2020

## AWARDS AND DISTINCTIONS

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- ETH Zurich [Career Seed Award](#), 2022 (30k CHF)
- ETH AI Center Postdoctoral Research Fellowship, 2021 (~180k CHF)
- Outstanding Reviewer Awards: [CVPR 2021](#), [ECCV 2022](#)
- Winner of CVPR 2022 ScanNet Benchmark Challenge on 3D semantic segmentation (1<sup>st</sup> place)
- Winner of CVPR 2022 Scan-to-BIM challenge (2<sup>nd</sup> place)
- Winner of CVPR 2020 ScanNet Benchmark Challenge on 3D instance segmentation (3<sup>rd</sup> place)
- Member of [ELLIS](#) society
- Selected for CVPR 2020 Doctoral Consortium (Mentor: Dr. Or Litany)
- Invited to Google Computer Vision Summit 2018, Zurich
- Accepted to International Computer Vision Summer School (ICVSS) 2015 (35% acceptance rate)

## TEACHING EXPERIENCE

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|-----------------------|--|-------------------|
| · Lecturer:           | Machine Perception (Variational Autoencoder, Diffusion Models) | ETH Spring 2023   |
| · Lecturer:           | Projects in Machine Learning Research (3D Scene Understanding) | ETH Spring 2023   |
| · Lecturer:           | Machine Perception (Generative Models)                         | ETH Spring 2022   |
| · Lecturer:           | Projects in Machine Learning Research (3D Scene Understanding) | ETH Spring 2022   |
| · Instructor:         | Virtual Humans   | ETH Spring 2022   |
| · Teaching Assistant: | Computer Vision (Visual Odometry, SLAM, 3D Reconstruction)     | RWTH Win. 2018    |
| · Teaching Assistant: | Machine Learning (PDE, SVM, Random Forests, CNN, RNN)          | RWTH Win. 2017    |
| · Teaching Assistant: | Computer Vision  | RWTH Sum. 2016    |
| · Seminar Adviser:    | Current Topics in Computer Vision and Machine Learning         | RWTH Sum. 2015,16 |
| · Teaching Assistant: | Introduction to Computer Science                               | RWTH Win. 2014,16 |

## MENTORSHIP

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Status	Student	Publications	Affiliation	Year	After Graduation
PhD	Ayça Takmez	ICCV'23, arXiv'23	ETH	2022-	
	René Zurbrügg		ETH	2023-	
	Baris Can Cam		TU Darmstadt	2022-	
	Silvan Weder		ETH	2022-	
Master	Julian Chibane	ECCV'22	MPI	2021-22	
	Vogel Mathias		ETH	2023-	
	Oliver Lemke		ETH	2023-	
	Alex Delitzas		ETH	2023-	
	Elisabetta Fedele	arXiv'23	ETH	2023	EPFL, Visit
	Robert Hönig		ETH	2022-	
	Filipe Paes		ETH	2022-	
	Yunfan Zou		ETH	2022-	
	Cafer Akcay	ICCV'23	ETH	2022	
	Irem Kaftan	ICCV'23	ETH	2022	
	Yuanwen Yue	CVPR'23	ETH	2022-23	MPI, PhD
	Anne Marx	ECCV'22 (Demo)	ETH	2022	
	Ekin Çelikkan	CVPR'22 (Challenge)	RWTH	2020-21	HEIBRiDS, PhD
	Alexey Nekrasov	3DV'21 (Oral)	RWTH	2020-21	RWTH, PhD
	Jonas Schult	CVPR'20 (Oral)	RWTH	2017-19	RWTH, PhD
	Cathrin Elich	GCPR'19	RWTH	2018-19	MPI, PhD
	Kushal Sharma		RWTH	2018-19	Amazon
	Anton Kasyanov	IROS'17	RWTH	2017-18	DataRobot
	Oleg Chernikov		RWTH	2016-17	Hunday Mobis
	Leonard Schramm		RWTH	2020-21	RWTH, M.Sc.
Bachelor	Marvin Pförtner		RWTH	2017-18	UoTübingen, M.Sc.