

Felix Taubner

PhD student at the intersection of 3D computer vision and generative AI, with focus on video diffusion models

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EDUCATION

PhD in Computer Science, University of Toronto <i>Supervised by David B. Lindell. 4D generative models with a focus on digital human avatars.</i>	09/2024 – present Toronto, Canada
MSc in Robotics, Systems and Control, ETH Zurich GPA 5.96 / 6.00 <i>Supervised by Roland Siegwart. Focus: 3D computer vision, perception and artificial intelligence.</i>	09/2019 – 08/2022 Zurich, Switzerland
BSc in Mechanical Engineering, ETH Zurich GPA 5.72 / 6.00 <i>Focus: robotics, control and computational methods.</i>	09/2015 – 05/2019 Zurich, Switzerland

RESEARCH EXPERIENCE

Research Intern, Meta <i>Supervised by Michael Zollhöfer.</i> Animating 4D digital humans with learned, geometry-free 3D representations.	05/2025 – 03/2026 Pittsburgh, USA
PhD Researcher, University of Toronto <i>Supervised by David B. Lindell.</i> - Generating controllable 4D human avatars from reference images with morphable multi-view diffusion and 3D Gaussian splatting; state of the art in single-image 4D head avatars (CVPR 2025 oral, SIGGRAPH Asia 2025). - Recast 6-DoF pose tracking as video-to-video translation with fine-tuned video diffusion (NeurIPS 2026).	05/2024 – present Toronto, Canada
AI Research Scientist, LG Electronics <i>Supervised by Jinmiao Huang and Kevin Ferreira.</i> - Developed a vision-transformer-based 3D face tracking pipeline with 54% better motion capture and 8% better 3D reconstruction accuracy than the state of the art (CVPR 2024). - Led a team of 4 researchers from 10/2023, planning generative AI research for digital humans with HQ.	10/2022 – 02/2024 Toronto, Canada
Visiting Graduate Student & Research Assistant, University of Toronto <i>Supervised by Igor Gilitschenski. Event-based computer vision and 3D reconstruction from event data.</i>	11/2021 – 09/2022 Toronto, Canada
Graduate Student Researcher, ETH Zurich <i>Supervised by Roland Siegwart.</i> Semester thesis: RGB-D place recognition by clustering and describing 3D line segments (3DV 2020).	01/2020 – 08/2020 Zurich, Switzerland

PUBLICATIONS

ProxyPose: 6-DoF Pose Tracking via Video-to-Video Translation Ruihang Zhang*, Felix Taubner *, Pooja Ravi, Kiriakos N. Kutulakos, David B. Lindell.	NeurIPS 2026 12/2026
MVP4D: Multi-View Portrait Video Diffusion for Animatable 4D Avatars Felix Taubner , Ruihang Zhang, Sherwin Bahmani, Mathieu Tuli, David B. Lindell. <i>Conference paper.</i>	SIGGRAPH Asia 2025 12/2025
Generating the Past, Present and Future from a Motion-Blurred Image SaiKiran Tedla, Kelly Zhu, Trevor Canham, Felix Taubner , Michael S. Brown, Kiriakos N. Kutulakos, David B. Lindell. <i>Journal paper.</i>	SIGGRAPH Asia 2025 12/2025
CAP4D: Creating Animatable 4D Portrait Avatars with Morphable Multi-View Diffusion Models Felix Taubner , Ruihang Zhang, Mathieu Tuli, David B. Lindell. <i>Oral (top 3.3% of accepted papers).</i>	CVPR 2025 06/2025
3D Face Tracking from 2D Video through Iterative Dense UV to Image Flow Felix Taubner , Prashant Raina, Mathieu Tuli, Eu Wern Teh, Chul Lee, Jinmiao Huang.	CVPR 2024 06/2024
LCD – Line Clustering and Description for Place Recognition Felix Taubner , Florian Tschopp, Tonci Novkovic, Roland Siegwart, Fadri Furrer.	3DV 2020 11/2020

* Equal contribution.

AWARDS & SCHOLARSHIPS

NSERC Canada Graduate Research Scholarship – Doctoral (CGRS-D) \$40,000 CAD / year	05/2026 – 04/2029
Robert E. Lansdale / Okino Computer Graphics Graduate Fellowship \$2,000 CAD	03/2026
Ontario Graduate Scholarship \$10,000 CAD	05/2025 – 04/2026
DiDi Graduate Student Award in Computer Science \$10,000 CAD	01/2025
Zeno Karl Schindler Foundation Master Thesis Grant 12,000 CHF	03/2022
Outstanding D-MAVT Bachelor Award 2,000 CHF, for first-year exam results	09/2016