

PhD Student · Computer Vision

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Education_ **Linköping University** Linköping, Sweden PHD COMPUTER VISION 2021/03 - present Advisor: Prof. Michael Felsberg • Co-Advisor: Associate Prof. Mårten Wadenbäck **Linköping University** Linköping, Sweden MS Engineering Physics and Electrical Engineering 2014/08 - 2020/06 • MS Thesis: Towards Understanding Capsule Networks **Katholieke Universitet Leuven** Leuven, Belgium 2018/08 - 2019/06 **ERASMUS STUDIES** • Courses in Machine Learning / Big Data / Al Professional Experience _ **2024-2024 3D Computer Vision Intern**, Apple, Cupertino, U.S. 2023-2023 Research Intern, Ericsson Research, Stockholm, Sweden 2020-2021 Research Assistant, Linköping University, Linköping, Sweden

David Nordström, **Johan Edstedt**, Fredrik Kahl, Georg Bökman. *Stronger ViTs With Octic Equivariance*. arXiv preprint arXiv:2505.15441.

Publications _

- **Johan Edstedt**, Georg Bökman, Mårten Wadenbäck, Michael Felsberg. *DaD: Distilled Reinforcement Learning for Diverse Keypoint Detection*. arXiv preprint arXiv:2503.07347.
- Ludvig Dillén, Per-Erik Forssén, **Johan Edstedt**. FACT: Multinomial Misalignment Classification for Point Cloud Registration. 2025 Scandinavian Conference on Image Analysis (SCIA).
- **Johan Edstedt**, Andre Mateus, Alberto Jaenal. *ColabSfM: Collaborative Structure-from-Motion by Point Cloud Registration*. 2025 IEEE Conference on Computer Vision and Pattern Recognition (CVPR).
- **Johan Edstedt**. Less Biased Noise Scale Estimation for Threshold-Robust RANSAC. 2025 IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW).
- Georg Bökman, **Johan Edstedt**, Michael Felsberg, Fredrik Kahl. *Affine steerers for structured keypoint description*. 2024 European Conference on Computer Vision (ECCV).
- Georg Bökman, **Johan Edstedt**, Michael Felsberg, Fredrik Kahl. *Steerers: Steerers: A framework for rotation equivariant keypoint descriptors*. 2024 IEEE Conference on Computer Vision and Pattern Recognition (CVPR).
- **Johan Edstedt**, Georg Bökman, Zhenjun Zhao. *DeDoDe v2: Analyzing and Improving the DeDoDe Keypoint Detector*. 2024 IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW).
- **Johan Edstedt**, Qiyu Sun, Georg Bökman, Mårten Wadenbäck, Michael Felsberg. *RoMa: Robust Dense Feature Matching*. 2024 IEEE Conference on Computer Vision and Pattern Recognition (CVPR).
- **Johan Edstedt**, Georg Bökman, Mårten Wadenbäck, Michael Felsberg. *DeDoDe: Detect Don't Describe—Describe Don't Detect for Local Feature Matching*. 2024 International Conference on 3D Vision (3DV) **(Oral)**.
- Jie Zhao, **Johan Edstedt**, Michael Felsberg, Dong Wang, Huchuan Lu. *Leveraging the Power of Data Augmentation for Transformer-based Tracking*. 2024 IEEE/CVF Winter Conference on Applications of Computer Vision (WACV).

- Yushan Zhang, **Johan Edstedt**, Bastian Wandt, Per-Erik Forssén, Maria Magnusson, Michael Felsberg. *GMSF: Global Matching Scene Flow.* 2023 Annual Conference on Neural Information Processing Systems (NeurIPS).
- **Johan Edstedt**, Ioannis Athanasiadis, Mårten Wadenbäck, Michael Felsberg. *DKM: Dense Kernelized Matching for Geometry Estimation*. 2023 Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR) (**Highlight**).
- Emil Brissman, Per-Erik Forssén, **Johan Edstedt**. Camera Calibration Without Camera Access-A Robust Validation Technique for Extended PnP Methods . 2023 Scandinavian Conference on Image Analysis (SCIA).
- Joakim Johnander, **Johan Edstedt**, Michael Felsberg, Fahad Shahbaz Khan, Martin Danelljan. *Dense gaussian processes for few-shot segmentation*. 2022 European Conference on Computer Vision (ECCV).
- **Johan Edstedt**, Amanda Berg, Michael Felsberg, Johan Karlsson, Francisca Benavente, Anette Novak, Gustav Grund Pihlgren. *VidHarm: A Clip Based Dataset for Harmful Content Detection*. 2022 26th International Conference on Pattern Recognition (ICPR).

Awards, Fellowships	s, & Grants	
2023 AISG-SLA Vis	ual Localisation Challenge — Winning Team, AI Singapore, SLA	\$ 20,000