

Johan Edstedt

PHD STUDENT · COMPUTER VISION

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Education

Linköping University

PHD COMPUTER VISION

- Advisor: Prof. Michael Felsberg
- Co-Advisor: PhD. Mårten Wadenbäck

Linköping, Sweden

2021/03 - present

Linköping University

MS ENGINEERING PHYSICS AND ELECTRICAL ENGINEERING

- MS Thesis: Towards Understanding Capsule Networks

Linköping, Sweden

14/08 - 20/06

Katholieke Universiteit Leuven

ERASMUS STUDIES

- Courses in Machine Learning / Big Data / AI

Leuven, Belgium

18/08 - 19/06

Professional Experience

2023-2023 **PhD Intern**, Ericsson Research, Stockholm

2020-2021 **Research Assistant**, Linköping University, Linköping

Publications

Georg Bökman, **Johan Edstedt**, Mårten Wadenbäck, Michael Felsberg. *Steerers: Steerers: A framework for rotation equivariant keypoint descriptors*. 2024 IEEE Conference on Computer Vision and Pattern Recognition (CVPR).

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, & Grants

2023 **AISG-SLA Visual Localisation Challenge — Winning Team**, AI Singapore, SLA

\$ 20,000