Akshaya Athwale

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RESEARCH INTEREST

Geometrical deep learning, Vision Transformer, Wide Angle Images, Computer Vision

PUBLICATIONS

- <u>A. Athwale</u>, A. Afrasiyabi, J. Lague, I. Shili, O. Ahmad, J.-F. Lalonde:
    - "DarSwin: Distortion Aware Radial Swin Transformer". In **IEEE International Conference on Computer Vision, ICCV 2023**.

- S. Sengupta, <u>A. Athwale</u>, T. Gulati, V. Lakshminarayanan:
    - "FunSyn-Net: Enhanced Residual Variational Auto-encoder and Image-to-Image Translation Network for Fundus Image Synthesis". in **SPIE Medical Imaging Conference 2020**.

- Y. Hold-Geoffroy, <u>A. Athwale</u>, J.-F. Lalonde:
    - "Deep Sky Modeling for Single Image Outdoor Lighting Estimation". In **IEEE Conference on Computer Vision and Pattern Recognition, CVPR 2019**.

EDUCATION

Université Laval		**Quebec, Canada**
Doctorate Candidate		**2021 - Present**
Aalto University		**Espoo, Finland**
Research Assistant/Project Employee		**2020 - 2021**
Indian Institute of Technology (IIT-ISM) Dhanbad		**Dhanbad, India**
Integrated Master of Technology in Mathematics and Computing GPA: 8.85/10.0		**2015 - 2020**

RESEARCH EXPERIENCE

Graduate Research Assistant, Université Laval	**Quebec City, Quebec**
Supervised By : Prof. Jean-Francois Lalonde and Ola Ahmad, August'21 - Present	
Research Assistant/Project Employee, Aalto University	**Espoo, Finland**
Supervised By : Prof. Alexander Ilin, May'20 - August'21	
Research Internship, University of Waterloo	**Waterloo, Canada**
Supervised By : Prof. Vasudevan Lakshminarayanan, May'19 - July'19	
Mitacs Globalink Research Internship, University Laval	**Quebec City, Canada**
Supervised By : Prof. Jean-Francois Lalonde, May'18 - December'18	
Machine Learning Engineer, Arya.ai, Lithasa Technologies	**Mumbai, India**
Supervised By : Deekshith Marla, May 2017 - July 2017	
Undergraduate Research Assistant, Indian Institute of Technology (IIT-ISM) Dhanbad	**Mumbai, India**
Supervised By : Prof. S.P Tiwari, May'15 - May'20	

REFERENCES

- **Prof. J. F. Lalonde:** Associate Professor, Department of Electrical and Computer Engineering, University Laval, +1(418)656-2131, jflalonde@gel.ulaval.ca

- **Ola Ahmad:** Chief AI Scientist at Thales Canada, ola.ahmad@thalesdigital.io

- **Prof. Alexander Ilin:** Professor, Computer Engineering, Aalto University, +358415014497, alexander.ilin@aalto.fi

- **Prof. Vasudevan Lakshminarayanan:** Professor, (cross-appointed with Physics, Systems Design Engineering, and Electrical and Computer Engineering), University of Waterloo, +1(202)460-3995, vengulak@uwaterloo.ca

- **Deekshith Marla:** Founder CTO (Featured in Forbes 30 Under 30, Lithasa Technology, Arya.ai, deekshith@arya.ai