MOHAMMAD REZA KARIMI DASTJERDI

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EDUCATION

PhD Candidate of Electrical Engineering   Sep. 2019–Present
Department of Electrical and Computer Engineering
Université Laval, Quebec, Canada

Master of Science in Culture Technology   Sep. 2017–Jul. 2019
Graduate School of Culture Technology
Korea Advanced Institute of Science and Technology (KAIST), Daejeon, South Korea

Bachelor of Science in Computer Engineering   Sep. 2011–Sep. 2016
Department of Computer Engineering
K.N.Toosi University of Technology (KNTU), Tehran, Iran

Research Interests

- Lighting estimation
- High dynamic range imaging
- Generative imaging
- Image-based lighting

Research Experience

Graduate Research Assistant   Sep. 2019–Present
Computer Vision and Systems Laboratory, Université Laval
Supervised by Professor Jean-François Lalonde

Research Intern   May. 2022–Mar. 2023
3D&Immersive team, Adobe
Supervised by J Eisenmann and Yannick Hold-Geoffroy

Research Scientist Intern   May. 2021–Nov. 2021
3D&Immersive team, Adobe
Supervised by J Eisenmann and Yannick Hold-Geoffroy

Graduate Research Assistant   Dec. 2017–July 2019
Enhanced Visual Experience (EVE) Team, KAIST Visual Media Lab
Supervised by Professor Junyong Noh

Undergraduate Research Assistant   Sep. 2016–Jun. 2017
KNTU Evolutionary Computing Group
Supervised by Professor Amin Nikanjam

Undergraduate Research Assistant   Nov. 2012–Sep. 2016
KNTU Advanced Robotic and Automated Systems (Aras) Research Group
Supervised by Professor Hamid D. Taghirad

Publications

- **M. Karimi Dastjerdi**, Y. Hold-Geoffroy, J. Eisenmann, J. Lalonde, EverLight: Indoor-Outdoor Editable HDR Lighting Estimation, arXiv, 2023. [Project page]
- **M. Karimi Dastjerdi**, Y. Hold-Geoffroy, J. Eisenmann, S. Khodadadeh, J. Lalonde, Guided Co-Modulated GAN for 360° Field of View Extrapolation, 3DV 2022, **Oral presentation**, **featured at Adobe Max Sneaks 2022**, [Project page]
- P. Gera, **M. Karimi Dastjerdi**, C. Renaud, P. J. Narayanan, J. Lalonde, Casual Indoor HDR Radiance Capture from Omnidirectional Images, BMVC 2022, **Spotlight presentation**, [Projet page]

Patents

- **M. Karimi Dastjerdi**, Y. Hold-Geoffroy, J. Eisenmann, V. Kim, J. Lalonde, Guided Co-Modulated GAN for 360° Field of View Extrapolation, Joint Patent between Adobe and Université Laval - in preparation
- J. Noh, H. Lee, B. Kim, G. Kim, J. Lelong, **M. Karimi Dastjerdi**, A. Kim, J. Lee, Image Processing Method and Device Therefor, US patent - Application no. 17429254, March 2022

HONORS AND AWARDS

Winner of Otis-Lalonde Scholarship	
Bourse en vision artificielle 2e et 3e cycle, Québec, Canada	Mar. 2023
Best Presentation Award	
Journées de la relève en intelligence et données, Québec, Canada	Apr. 2022
2nd Best Presentation Award	
Journées de la relève en intelligence et données, Québec, Canada	Apr. 2021
First Place in Machine Vision: Explorer League	
SharifCup Open Robotics Competition, Sharif University of Technology, Tehran, Iran	Sep. 2015
Second Place in Machine Vision: Explorer League	
SharifCup Open Robotics Competition, Sharif University of Technology, Tehran, Iran	Nov. 2014

Professional and External Experiences

Reviewer, 3DV 2021, ICCV workshop 2021

Student Committee Member, ICRoM 2014, 2016.

Technical Committee Member, The 2nd International Students Competition in Robotic, Amirkabir University of Technology, Tehran, Iran. Mar. 2016.

Technical Committee Member, The 1st KNTU Workshop on Robotics and Embedded Systems, Khazar University, Baku, Azerbaijan. Dec. 2015.

Computer skills

Programming languages Python, C++, C, C#, and Java

Machine Learning PyTorch, Keras, Tensorflow

Computer Graphics Blender, Maya, Unity3D

Sensors Kinect, 2D Laser Scanner

Scientific Frameworks/Software OpenCV, Matlab, ROS

Language

English (Advanced)   Persian (Native)   Korean (Beginner)   French (Beginner)

REFERENCES

Prof. Jean-François Lalonde
Full Professor
Electrical and Computer Engineering Department
Université Laval, Québec, CA
Email: jflalonde@gel.ulaval.ca

Dr. Yannick Hold-Geoffroy
Senior Research Scientist,
Procedural Imaging Group
Adobe, San Jose, USA
Email: holdgeof@adobe.com

Dr. Jonathan Eisenmann
Senior Manager - Tech Transfer
Creative Product
Adobe, San Francisco, USA
Email: eisenman@adobe.com

Prof. Junyong Noh
Full Professor
Graduate School of Culture Technology
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