

S. Mahdi H. Miangoleh

PH.D. STUDENT · COMPUTING SCIENCE

Department of Computing Science, Simon Fraser University, Burnaby, BC, Canada

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Education

Simon Fraser University

PH.D IN COMPUTING SCIENCE

- GPA : 4.13/4.33

Burnaby, BC, Canada

Sep. 2022 - Expected(Aug. 2026)

Simon Fraser University

M.SC IN COMPUTING SCIENCE

- GPA : 4.13/4.33

Burnaby, BC, Canada

Jan. 2020 - Aug. 2022

Sharif University of Technology

B.SC IN ELECTRICAL ENGINEERING

- Minor in Digital Systems and Devices
- GPA : 3.58/4 (16.6/20)
- Last two years GPA : 3.67/4 (17.36/20)

Tehran, Tehran, Iran

Sep. 2014 - June 2018

Experiences

Research Intern

ADOBE

Aug. 2021 - May 2022

Cambridge, Massachusetts (remote)

Software(C/C++) Developer

SOROUSH MEDIA TECHNOLOGY DEVELOPMENT

- Worked as a member of SCRUM(agile project management) team
- Developed graphical user interface with Qt (C/C++)
- Developed scripts to communicate with back-end servers in order to provide real-time updated information(web services and databases)
- Tested all software prior to applications going live to alleviate bugs and troubleshoot issues
- Developed scripts to communicate with XMPP servers in order to provide instant messaging service
- Link : <https://sapp.ir>

Sep. 2017 - 2019

Tehran, Iran

Research Experiences

Interactive Editing of Monocular Depth

SIMON FRASER UNIVERSITY

- A web-based and platform-independent tool to support wider adoption of 3D photography techniques in everyday digital photography.
- [\(Project webpage\)](#)

Computer Vision

Published at Proc. SIGG. Post. 2022

Visual Distraction Reduction

ADOBE RESEARCH

- Applying deep learning to reduce the saliency of the distractor objects present in a scene.

Computer Vision

High-Res Monocular Depth Estimation

SIMON FRASER UNIVERSITY

- Boosting Monocular Depth Estimation Models to High-Resolution viaContent-Adaptive Multi-Resolution Merging - Proc. CVPR 2021
- [\(Project webpage\)](#)

Computer Vision

Published at Proc. CVPR 2021

Computational Flash Photography

SIMON FRASER UNIVERSITY

- Computational flash generation or decomposition using a neural network that enables various image manipulation and edits of the extracted or generated flash illumination.

Computational Photography

Deep learning in Autonomous Vehicles

SHARIF UNIVERSITY OF TECHNOLOGY

- Using deep learning algorithms for image processing in autonomous vehicles because of its no-need-to-feature-engineering nature and high accuracy is one of the best choices. but the limitation of resources in embedded systems and heavy computations of deep learning algorithms must be taken care of. we try to use GPUs and parallel computing techniques to achieve this goal.

M.Sc. Thesis

Dropped Out

Skills

Machine Learning Frameworks Pytorch, Tensorflow, Keras
Programming Languages OOP, C/C++, Python, Java, MATLAB

Publications

Interactive Editing of Monocular Depth

OBUMNEME STANLEY DUKOR, S. MAHDI H. MIANGOLEH, MAHESH KUMAR KRISHNA REDDY LONG MAI², YAĞIZ AKSOY¹

- [Project webpage](#)

In Proc SIGGRAPH Posters 2022

Simon Fraser University

Boosting Monocular Depth Estimation Models to High-Resolution via Content-Adaptive Multi-Resolution Merging

S. MAHDI H. MIANGOLEH^{*1}, SEBASTIAN DILLE^{*1}, LONG MAI², SYLVAIN PARIS², YAĞIZ AKSOY¹

- [Project webpage](#)

In Proc CVPR 2021

Simon Fraser University¹, Adobe Research²

Theoretical Foundations of Learning in Mathematical Sciences

S. HASAN H. MIANGOLEH, S. MAHDI H. MIANGOLEH

ISBN:978-600-8533-12-2

2017

Honors & Awards

Sep. 2022 **Awarded**, Computing Science graduate fellowship, Simon Fraser University

Sep. 2022 **Awarded**, Simon Fraser University graduate fellowship, Simon Fraser University

Jan. 2021 **Awarded**, Computing Science graduate fellowship, Simon Fraser University

Jan. 2020 **Awarded**, Computing science graduate fellowship, Simon Fraser University

2018 **Ranked 8th**, in the Nationwide University Entrance Exam known as Konkoor for M.Sc. degree in Electrical Engineering

2014 **Ranked 33th**, in the Nationwide University Entrance Exam known as Konkoor for B.Sc. degree in Engineering

Language Skills

Persian

NATIVE

English

FLUENT

- TOEFL : 111/120 (Reading 30/30 Listening 30/30 Speaking 27/30 Writing 24/30)
- CELPIP : (Reading 12/12 Listening 12/12 Speaking 10/12 Writing 9/12)