

Personal info

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📍 Toronto

Links

🌐 [Portfolio](#)

🐙 [Github](#)

in [Linkedin](#)

Skills

🔗 Python, C/C++

📊 Matlab

🔥 Pytorch, Tensorflow/Keras

🐧 Ubuntu, CUDA

👁 OpenCV, PIL

📺 AVR

👥 Teamwork

Languages

🗣 English

🗣 Persian

🎓 Teaching Experience

- Intro to Programming (Python)
- Linear Control System
- Engineering Mathematics

Seyed M. Hossein Hosseini

Education

York University Sep 2022-Present

MASc. in Electrical and Computer Engineering, GPA: 4.0

Thesis: "Monocular depth estimation using geometry and semantics"

University of Tehran Sep 2016-Feb 2021

BSc. in Electrical Engineering, GPA: 3.6

Thesis: "Single-view 3D Reconstruction of Surface of Revolution"

Work Experience

Research Assistant at NBIC, Tehran 2021-2022

- Reconstructing brain fibers 3D structure based on dMRI data

Research Intern at DAHA tech, Tehran 2019

- Implementing a wireless indoor positioning system

Publications

1. S.M.H. Hosseini, *et al.*, "CTtrack: A CNN+Transformer-based framework for fiber orientation estimation & tractography," *Neuroscience Informatics*, 2022.
2. S.M.H. Hosseini, *et al.*, "Single-view 3D reconstruction of surface of revolution," submitted.

Projects

- **Fiber Orientation Estimation**
 - Research Assistant, Python
- **Optical flow estimation**
 - Computer Vision, Python
- **Voice Gender Classification**
 - Pattern Recognition, Python
- **Movie Server**
 - Advanced Prog., C++
- **Single-view 3D Reconstruction of SOR**
 - Bachelor's Thesis, Matlab
- **Super Mario Game**
 - Advanced Prog., C++
- **YOLO fine-tuning for chess piece detection**
 - Deep Learning, Python