

DONG HUO

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Targeting a position starting from 2022.05

EDUCATION

University of Alberta, Canada

Sept 2018 - Now

Ph.D., Computing Science

Harbin Institute of Technology, China

Sept 2014 - Jun 2018

B.Eng., Software Engineering

RESEARCH INTERESTS

Image Restoration (Deblurring, Super-Resolution, Denoising, Hyperspectral Reconstruction), Image Segmentation, Structured Light, Medical Image Processing.

WORK EXPERIENCE

Computer Graphics Lab, University of Alberta

Jun 2019 - Now

Advisor: Prof. Herb Yang

Title: Research Assistant

Research topics: Image Processing (Deblurring, Super-Resolution, Denoising), and Hyperspectral Image Reconstruction

Quicktron Robotics, China

Jul 2016 – Aug 2016

Advisor: Lei Luo

Title: Algorithm Engineer Internship

Research topics: Time-sequence Prediction

TEACHING EXPERIENCE

CMPUT 174 - Introduction to the Foundations of Computation I, University of Alberta

Fall 2018 - Fall 2021

Instructor: Sadaf Ahmed

Title: Teaching Assistant

Teaching topics: Python, Pygame

CMPUT 175 - Introduction to the Foundations of Computation II, University of Alberta

Winter 2019 - Winter 2022

Instructor: Osmar Zaiane

Title: Teaching Assistant

Teaching topics: Python, Data Structure

TECHNICAL SKILLS

Programming: Python, Pytorch, TensorFlow

Software : Latex, PyCharm

PUBLICATIONS

1. **Dong Huo**, Abbas Masoumzadeh, Herb Yang, “Blind Non-Uniform Motion Deblurring using Atrous Spatial Pyramid Deformable Convolution and Deblurring-Reblurring Consistency”, in the IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshop (CVPRW), 2022
2. **Dong Huo**, Abbas Masoumzadeh, Rafsanjany Kushol, Herb Yang, “Blind Image Deconvolution Using Variational Deep Image Prior”, in the IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2022 (Under Review)
3. **Dong Huo**, Jian Wang, Yiming Qian, Herb Yang, “Glass Segmentation with RGB-Thermal Image Pairs”, in IEEE Transactions on Image Processing, 2022 (Under Review)

4. **Dong Huo**, Herb Yang, “Blind Image Super-Resolution with Spatial Context Hallucination”, Arxiv, 2020
5. Rafsanjany Kushol, Abbas Masoumzadeh, **Dong Huo**, Sanjay Kalra, Herb Yang, “ADDFormer: Alzheimer’s Disease Detection from structural MRI using Fusion Transformer”, in the IEEE International Symposium on Biomedical Imaging (ISBI), 2022

PATENT

1. Tonghua Su, Bin Li, **Dong Huo**, “High Efficient Method and System for Tumor labeling on Medical Image”, China patent CN2018107992792.
2. Tonghua Su, Lijuan Yu, **Dong Huo**, “Deep-learning-Based System for Diagnostic report Generation from Medical Image”, China patent CN2018107589994.

AWARD

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| • Honorable Mention of American Mathematical Modeling Contest | 2017 |
| • The First Prize of the National Mathematical Modeling Contest of Heilongjiang Province | 2016 |
| • The Second Prize of National Undergraduate IOT Design Contest in Northeastern China Division | 2015 |