

# DONG HUO

📧 [github.com/Dong-Huo](https://github.com/Dong-Huo) **in** [dong-huo-55aa5411b/](https://dong-huo-55aa5411b/) ✉ [dhuo@ualberta.ca](mailto:dhuo@ualberta.ca)

📍 Edmonton, Alberta, Canada ☎ (780)-885-6006 📄 [dong-huo.github.io/](https://dong-huo.github.io/)

*Targeting an internship position in Summer/Fall 2022*

## EDUCATION

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**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

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

## WORK EXPERIENCE

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**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

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**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

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**Programming:** Python, Pytorch, TensorFlow

**Software :** Latex, PyCharm, Labelme

## PUBLICATIONS

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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 the IEEE Transactions on Image Processing (TIP), 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**

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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 |