

# HAIWEN DIAO

## Three-year Doctoral Candidate

Intelligent Image Analysis and Understanding (IIAU) Lab

School of Information and Communication Engineering

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## Research Interests

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My primary research interests are *Vision-and-Language*, *Transfer Learning* and *Multimodal Large Language Model*. Specifically, my research in the vision-and-language domain strives to build up an efficient system that entails recognizing visual-semantic perception and contextualizing fine-grained correspondence across modalities.

## Experience

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**Beijing Academy of Artificial Intelligence, *Beijing*** **Sep.2023 — Present**  
*Research Internship*

- Director: [Dr. XinLong Wang](#) (Computer Vision Center)

**Hong Kong University of Science and Technology, *Dalian*** **Jan.2023 — Jul.2023**  
*Remote Visiting Research*

- Director: [Dr. Long Chen](#) (Computer Science and Engineering)

**Tencent AI Lab, *Shenzhen*** **Jun.2020 — Mar.2021**  
*CCF-Tencent Open Fund*

- Director: [Dr. Ying Zhang](#), [Dr. Lin Ma](#) (Computer Vision Center)

## Education

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**Dalian University of Technology (DUT), *Dalian*** **Sep. 2021 — Present**  
*Ph.D. in Information and Communication Engineering*

- Thesis: Parameter-efficient Transfer Learning, Multi-modal Large Language Model
- Director: [Prof. Huchuan Lu](#)

**Dalian University of Technology (DUT), *Dalian*** **Sep. 2018 — Jun. 2021**  
*M.E. in Information and Communication Engineering*

- Thesis: Person Re-Identification, Image-text Retrieval, Video-text Retrieval
- Director: [Prof. Huchuan Lu](#)

**Dalian University of Technology (DUT), *Dalian*** **Sep. 2014 — Jun. 2018**  
*B.E. in Electronic Information Engineering*

- GPA: Top3% (School of Information and Communication Engineering)

## Awards & Hornors

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### Awards

- Gold Award of the 9th Liaoning College students' 'Internet+' Competition *Liaoning Province, 2023*

### Hornors

- Excellent Graduate of Dalian City (Bachelor's degree) *Dalian City, 2018*
- Excellent Graduate of Dalian University of Technology (Bachelor's degree) *DUT, 2018*
- Lingshui Scholarship (First Prize) (Top 5%) *Dalian City, 2016*
- China National Scholarship (Top 1%) *Ministry of Education, 2015*
- Awarded Learning Excellence Award (First Prize) (Top 5%) *DUT, 2015/16*

## Publications

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### Conference Publications .....

#### 1. Similarity Reasoning and Filtration for Image-Text Matching

[Haiwen Diao](#), Ying Zhang, Lin Ma, Huchuan Lu

Conference on Artificial Intelligence (AAAI), 2021. (google citations: 170+) [\[Code\]](#)

### Journal Publications .....

#### 2. Plug-and-Play Regulators for Image-Text Matching

[Haiwen Diao](#), Ying Zhang, Wei Liu, Xiang Ruan, Huchuan Lu

IEEE Transactions on Image Processing (TIP), 2023. [\[Code\]](#)

### Patents Declaration .....

#### 1. An Image Retrieval Method and Related Device

Huchuan Lu, [Haiwen Diao](#), Ying Zhang, Lin Ma

CN111914113A, China, 2020.

## Professional Services

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### Journal Reviewer:

IEEE Transactions on Image Processing

### Conference Reviewer:

CVPR (2022 - 2024), ICCV (2023), ECCV (2022), AAAI (2023 - 2024)

## References

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- [Prof. Huchuan Lu \(Ph.D. Advisor\)](#)

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- [Dr. Lin Ma \(Industrial Director\)](#)

Meituan AI Lab

Chaoyang, Beijing, 100102, China

Email: forest.linma@gmail.com

- [Dr. XinLong Wang \(Industrial Director\)](#)

Beijing Academy of Artificial Intelligence (BAAI)

Haidian, Beijing, 100871, China

Email: wangxinlong@baai.ac.cn

- [Dr. Ying Zhang \(Industrial Director\)](#)

Tencent WeiXin Group (WXG)

Shenzhen, Guangdong 518000, China

Email: zydl0907@gmail.com

- [Asst. Prof. Long Chen \(Remote Director\)](#)

Hong Kong University of Science and Technology (HKUST)

Clear Water Bay, Kowloon, Hong Kong, 999077, China

Email: longchen@cse.ust.hk

- [Ph.D. Bo Wan \(Collaborator\)](#)

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