

# ZHENG-CONG FEI

No.6 Zhongguancun South Road, Beijing, China, 100190

feizhengcong@ict.ac.cn ◇ 158-5079-8820

## EDUCATION

---

**Institute of Computing Technology, Chinese Academy of Sciences** *Sept 2019 - Present*

Master of Computer Application Technology

Advisor: Hao Chi

**Nanjing University of Science and Technology**

*Sept 2015 - Jun 2019*

Bachelor of Electronic Information Engineering

GPA: 3.75/ 4    Rank: 1/ 165

## RESEARCH INTERESTS

---

Reinforcement Learning; Vision and Language

## HONORS & AWARDS

---

<b>Meritorious Winner</b>	The Mathematical/Interdisciplinary Contest in Modeling (MCM/ICM), 2018
<b>First Prize</b>	China Undergraduate Mathematical Contest in Modeling, 2018
<b>First Prize</b>	MathorCup Mathematical Contest, 2018
<b>Second Prize</b>	National Military Mathematical Modeling League, 2017
<b>First Prize</b>	Certification Cup Mathematical Contest, 2017
<b>First Prize</b>	Mathematics competition of Chinese College Students, 2016
<b>First Prize</b>	The Chinese Mathematics Competitions (CMC), 2015

## PROJECTS

---

### **Research Engine for Mass Spectra**

Graduation Project, Institute of Computing Technology

Mar 2019 - Jun 2019

Advisor: Hao Chi

Search engine framework building; Score function optimization.

### **Partially Occluded Objective Detection**

Summer Research Intern, Peking University

Apr 2018 - Oct 2018

Advisor: Jue Zhang

SSD re-implementation for object detection; User interface for image display designing.

## PUBLICATIONS

---

Zhengcong Fei. Improving Tandem Mass Spectra Analysis with Hierarchical Learning, International Joint Conference on Artificial Intelligence (IJCAI), Yokohama, Japan, 2020

Zhengcong Fei. Actor-Critic Sequence Generation for Relative Difference Captioning (**Oral Presentation**), ACM International Conference on Multimedia Retrieval (ICMR), Dublin, Ireland, 2020

Zhengcong Fei. Novel Peptide Sequencing with Deep Reinforcement Learning (**Oral Presentation**), IEEE International Conference on Multimedia and Expo (ICME), London, UK, 2020

Zhengcong Fei. Fast Image Caption Generation with Position Alignment (**Oral Presentation**), AAAI 2020 Workshop on Artificial Intelligence of Things, New York, USA, 2020.

Zhengcong Fei. Better Understanding Hierarchical Visual Relationship for Image Caption, NeurIPS 2019 Workshop on New In ML, Vancouver, Canada, 2019.

Zhengcong Fei, Hao Chi. GameTag: A New Sequence Tag Generation Algorithm Based on Cooperative Game Theory, Proteomics under review.

**SKILLS**

---

<b>Languages:</b>	C++; Python
<b>Deep Learning Tools:</b>	Pytorch; Tensorflow
<b>CET-4:</b>	571
<b>CET-6:</b>	551