



[7] Yu Xie, **Fangrui Zhu**, Yanwei Fu. Main-Secondary Network for Defect Segmentation of Textured Surface Images, 2020 IEEE Winter Conference on Applications of Computer Vision (WACV), 3531-3540. [PDF]

[8] Jianhui Chen, **Fangrui Zhu**, James J. Little. A Two-Point Method for PTZ Camera Calibration in Sports, 2018 IEEE Winter Conference on Applications of Computer Vision (WACV), 287-295. [PDF]

## Experience

### Research Intern

*Amazon Alexa AI, 2022.6 – 2022.9*

- Advised by Dr. Emre Barut.
- Topic: Mitigating Bias in Image Captioning.

### Research Intern

*Baidu Research, 2021.7 – 2021.9*

- Research Intern in IDL group.
- Advised by Dr. Guodong Guo.
- Topic: Vision-language representation learning.

### Research Intern

*Amazon AWS, 2020.6 – 2020.12*

- Research Intern in GluonCV group.
- Advised by Dr. Yi Zhu.
- Topic: Attention-based semantic segmentation.

### Research Assistant

*Computer Vision Lab at Fudan University, 2018.9 – 2020.5*

- Advisor: Prof. Yanwei Fu.
- Cloth-inconsistent person re-identification (ReID) and occluded ReID.
- Worked closely with Dr. Weidi Xie from the VGG group on self-supervised video object segmentation.

### Research Intern

*University of British Columbia, 2017.6 – 2017.9*

- Worked as a Mitacs Research Intern.
- Fully funded by China Scholarship Council (CSC) and Mitacs.
- Advisor: Prof. James Little and Dr. Jianhui Chen.
- Low-level computer vision based camera calibration for sports video understanding.

## Selected Awards

<i>Second prize, National Post-Graduate Mathematical Modeling Contest</i>	2019
<i>'GouXiong Hui' data mining project funding (¥2,000)</i>	2019
<i>Shanghai Outstanding Graduate Student Award (top 5%)</i>	2018
<i>CSC and Mitacs Funding for undergraduate internship (\$5,000 CAD)</i>	2017
<i>First prize, Award on Tongji Excellent Student Scholarship (¥5,000)(top 5%)</i>	2016
<i>First prize, Award on Tongji Excellent Student Scholarship (¥5,000)(top 5%)</i>	2015
<i>Shanghai Technological Innovation Projects for Undergraduates (funded with ¥10,000)</i>	2015

- Teaching** - **Teaching Assistant** for DATA620007 Data Mining (2020 Spring), Fudan University.
- Experience** - **Teaching Assistant** for DATA130020.01 Principle and Application of Database (2019 Spring), Fudan University.
- **Teaching Assistant** for Deep Learning (2021 Spring), Northeastern University.
- **Teaching Assistant** for Computer Vision (2022 Fall), Northeastern University.

**Technical Skills** **Programming:** Python, C/C++, Matlab, R, JavaScript, HTML, CSS

**Tools:** PyTorch, Opencv, LaTeX, the scientific Python stack (numpy/scipy, scikit-learn, pandas, etc.), NodeJS, Bootstrap, Gurobi, Sketch, Bash, Git

**Platform:** Linux, Mac OSX, IOS, Amazon Web Services (AWS)

**Language:** IELTS:7.5; GRE: 323+4.0