# Tiankai Hang

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## RESEARCH INTEREST

Computer Vision, Pattern Recognition, Machine Learning and Multimedia analysis, understanding

## EDUCATION

**Southeast University (SEU), Nanjing**                    *August 2020 - present*
Ph.D candidate of Software Engineering.
Advisor: Baining Guo and Xin Geng

**Southeast University (SEU), Nanjing**                    *August 2016 - June 2020*
Bachelor of Automation.
GPA: 4.025/4.8    Ranking: 3/99

## EXPERIENCE & RESEARCH

**Multimedia Search and Mining Group, Microsoft Research Asia**    *July 2020 - October 2020*
Research Intern    Mentor: Jianlong Fu and Kai Qiu
Research Topic: Pulmonary Embolism Detection and Intracranial Hemorrhage Detection

- Employed different 2D backbones (DenseNet169, ResNest200) to the task of detection.
- Combined the 2D model and sequence model to improve the results.

**Institute of Dermatology, Chinese Academy of Medical Sciences**    *July 2019 - August 2019*
Research Intern    Mentor: Siyu Xia
Research Topic: Medical Image Segmentation

- Employed traditional methods (SNAKE, Pigment separation) to the task of segmentation.
- Implemented $k$-means and UNet, achieved the result of almost 0.7 $mIoU$.

## HONORS & AWARDS

### Research Award

· To be achieved

### Student Award (selected)

· Outstanding Graduate of Southeast University, 2020.
· Meritorious Winner of Interdisciplinary Contest In Modeling, 2019.
· 1st Prize The Chinese Mathematics Competitions(CMC), 2018.
· Merit Student 2017, 2018 (Southeast University)
· HELLA Scholarship 2018 (Southeast University Education Foundation, Only 10 undergraduates)
· National Scholarship 2017 (China, Top 0.2%)

## PUBLICATIONS AND ACADEMIC ACHIEVEMENT

No publications and achievements till now.

## TECHNICAL STRENGTHS

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|---|---|
| **Programming Languages** | Python, Matlab, C, C++ |
| **Deep Learning Framework** | PyTorch, Tensorflow |
| **Software & Tools** | MS Office, LaTeX |