

# Hao Xu

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Shanghai, China



## EDUCATION

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### Southeast University (SEU)

Sep 2018 - Jun 2021

Pattern Recognition, Master's Degree, Department of Automation

Nanjing, China

- GPA: 81.5 / 100

### Swinburne University of Technology (SUT)

Aug 2019 - Nov 2019

Data Science, Visitor, Department of Computing Technology

Melbourne, Australia

### Southeast University (SEU)

Sep 2014 - Jun 2018

Automation, Bachelor's Degree, Department of Automation

Nanjing, China

- GPA: 3.75 / 4.8

## WORK EXPERIENCE

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### Pinduoduo

Jul 2021 - Present

Software Engineer; Recommender system

Shanghai, China

- Recommendation model serving, GPU-related performance engineering. GPU embedding lookup; low-precision neural network inference; TensorFlow backend development.

### ANT Group

Jun 2020 - Aug 2020

Software Engineer Intern; Operations research

Hangzhou, China

- Development of a reusable software framework for multi-objective optimization. Multi-objective optimization algorithms, software framework design.

## PUBLICATIONS

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### Evolutionary multi-task optimization

- H. Xu, A. K. Qin and S. Xia, "Evolutionary Multi-task Optimization with Adaptive Knowledge Transfer," IEEE Transactions on Evolutionary Computation, doi: 10.1109/TEVC.2021.3107435.

### Image-based crowd density estimation

- H. Xu, C. Zheng, Y. Nie and S. Xia, "Crowd Counting with Segmentation Map Guidance," 2019 Chinese Control Conference (CCC), 2019, pp. 7716-7721.

## AWARDS

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- First Prize of the "Beige Computing Cup" Vehicle Detection in Aerial Images (2019)
- Third Prize of National Graduate Mathematical Modeling Competition (2018)
- Second Prize of National Student Electronic Design Competition (2017)

## SKILLS

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- **Programming:** C/C++; Python; CUDA; Tensorflow
- **Languages:** Chinese (native); English (TOEFL-89)
- **Interests:** Tennis; swimming; traditional instrument (Xiao a vertical bamboo flute)