

Hao Xu

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Shanghai, China

EDUCATION

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

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

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

- 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

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