

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
Built 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," in 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, doi: 10.23919/ChiCC.2019.8865761.

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 (mother language); English (TOEFL-89)
- **Interests:** Tennis; Swimming; Traditional instrument (Xiao a vertical bamboo flute)