




# XUAN-TENG HUANG 黄軒騰

 Huangxt57 ·  i@huangxt.cn ·  in huangxt

## EDUCATION

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**Sun Yat-sen University**, Guangzhou, China 2022 - 2027 (expected)

*Ph.D.* student in Computer Science (CS)

**Sun Yat-sen University**, Guangzhou, China 2018 - 2022

*B.S.* in Computer Science (CS)

## EXPERIENCE

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**GPU Arch Intern, Deep Learning, NVIDIA** September 2022 – December 2022

*cuDNN* upstream library kernel developer in GPU Compute Arch, Fast Kernel team. Achieve 9.51x and 12.54x speedups for depthwise convolution kernels on Ampere and Hopper GPUs, respectively.

**Heterogenous Computing Intern, ByteDance** May 2022 – August 2022

Design and implement a system-level CUDA profiling tool (proof-of-concept) based on NVIDIA CUPTI, with 0.5x lower overhead than Nsight Compute with no explicit process injection.

**Student Cluster Competition Team, SYSU** October 2020 – Present

One of the active leaders of student cluster competition team of SYSU. Involve in major international and domestic supercomputer & HPC competitions.

## PUBLICATIONS

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- [ICCD'23] KeSCo: Compiler-based Kernel Scheduling for Multi-task GPU Applications  
Zejia Lin, Zewei Mo, **Xuanteng Huang**, Xianwei Zhang, Yutong Lu
- [ECCV'20] MINI-Net: Multiple Instance Ranking Network for Video Highlight Detection  
Fa-Ting Hong, **Xuanteng Huang**, Wei-Hong Li, Wei-Shi Zheng

## SKILLS

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- Programming Languages: C, C++, Python, CUDA
- Languages: English (CET6 602/750)

## HONORS AND AWARDS

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CCF Elite Collegiate Award [CCF 优秀大学生/领航计划] October 2022

The First Prize Student Scholarship in SYSU ×2 (top 5%) [中山大学一等奖学金] 2019 – 2020, 2020 – 2021

Shenzhen Stock Exchange Scholarship [深交所奖学金] September 2020

First Prize (Rank 1) of IndySCC'21 Student Cluster Competition November 2021

Honorable Mention (Rank 4) of ISC'21 Student Cluster Competition June 2021

Second Prize of ASC'20-21 Student Cluster Competition January 2021