

# QI HAN

✉ qhan@mail.nankai.edu.cn · ☎ (+86) 182-9281-3106 · 🏠 <https://hanqer.github.io/>

## RESEARCH INTERESTS

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Computer Vision, Deep Learning.

## 🎓 EDUCATION

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M.ENG., Computer Technology, 2019 – 2022 (Expected)  
Media Computing Lab (supervised by Ming-Ming Cheng)  
Nankai University, China

B.ENG., Computer Science and Technology, 2015 – 2019  
College of Computer Science (Elite Class)  
Xidian University, China  
Avg. Score: 85.4

## 💬 PROFESSIONAL ACTIVITIES

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Reviewer for IEEE CVPR 2021 and IJCAI 2021

## ⚙️ EXPERIENCES

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**Microsoft Research Asia (MSRA)**, China. 2021.1 – Present  
*Research Intern*  
Mentor: Qi Dai (Senior Researcher), Jingdong Wang (SR Principal Researcher MGR)  
Transformer based video analysis and understanding.

## 📄 PUBLICATIONS

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# means equal contribution.

*Deep Hough Transform for Semantic Line Detection*

**Qi Han**#, Kai Zhao#, Jun Xu, Ming-Ming Cheng  
European Conference on Computer Vision (**ECCV**), 2020.

*Deep Hough Transform for Semantic Line Detection*

Kai Zhao#, **Qi Han**#, Chang-Bin Zhang, Jun Xu, Ming-Ming Cheng  
IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**), Minor

*Global2Local: Efficient Structure Search for Video Action Segmentation*

Shang-Hua Gao#, **Qi Han**#, Zhong-Yu Li, Pai Peng, Liang Wang, Ming-Ming Cheng  
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021.

*Representative Batch Normalization with Feature Calibration*

Shang-Hua Gao, **Qi Han**, Duo Li, Ming-Ming Cheng, Pai Peng  
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021 oral.

*CDNet: Complementary Depth Network for RGB-D Salient Object Detection*

Wen-da Jin#, Jun Xu#, **Qi Han**, Ming-Ming Cheng, Yi Zhang  
IEEE Transactions on Image Processing (**TIP**), accept.

### *Dependency Aware Filter Pruning*

Kai Zhao#, Xin-Yu Zhang#, **Qi Han**#, Ming-Ming Cheng  
IEEE Transactions on **Cybernetics**, submit.

### *Delving Deep into Label Smoothing*

Chang-Bin Zhang#, Peng-Tao Jiang#, Qibin Hou, Yunchao Wei, **Qi Han**, Zhen Li, Ming-Ming Cheng  
IEEE Transactions on Image Processing (**TIP**), submit.

## SELECTED AWARDS

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|---|----------------|
| • SK Scholarship  | 2020           |
| • The First Prize Scholarship of Nankai University                  | 2020           |
| • “Outstanding graduates” of Xidian University                      | 2019           |
| • “Outstanding Student” of Xidian University                        | 2018,2017,2016 |
| • National Scholarship  | 2018           |
| • Meritorious Winner of Interdisciplinary Contest In Modeling       | 2018           |
| • Bronze Medal of ICPC National Invitational Contest Xi'an Station. | 2018           |
| • Second Prize of ShanXi Province Collegiate Programming Contest.   | 2018           |
| • Silver Medal of Group Programming Ladder Tournament.              | 2017           |
| • The First Prize Scholarship of Xidian University                  | 2017,2016      |

## INVENTION PATENTS

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Six invention patents with the following application numbers:

(1) 202010064079 .X; (2) 202010031394 .2; (3) 202010046252 .3; (4) 202010066280 .1; (5) 202011551847 .0;  
(6) 202110004845 .8.

## TECHNICAL SKILLS

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- English: CET-6
- Programming: C/C++, Python
- Theory: Machine learning, Image processing, Neural networks.