

# Haoran MO

## PERSONAL INFORMATION

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INSTITUTION: School of Computer Science and Engineering, Sun Yat-sen University  
ADDRESS: Guangzhou, China  
EMAIL: [mohaor@mail2.sysu.edu.cn](mailto:mohaor@mail2.sysu.edu.cn)  
HOMEPAGE: <http://mo-haoran.com>  
GITHUB: <https://github.com/MarkMoHR>

## RESEARCH INTERESTS

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I work on deep learning based Computer Graphics and Computer Vision, particularly in sketch (line art) generation, sketch understanding, sketch-based computer-aided design (CAD) and sketch-based applications incorporated with multimedia.

## EDUCATION

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SEP 2020 - JUNE 2024 (Expected)	Ph.D. at <b>Sun Yat-sen University</b> , Guangzhou Major: Software Engineering
SEP 2018 - JUNE 2020	Master of Science in ENGINEERING, <b>Sun Yat-sen University</b> , Guangzhou Major: Software Engineering Thesis: "Automatic Colorization of Scene Sketches Based on Deep Learning"
SEP 2014 - JUNE 2018	Bachelor Degree in ENGINEERING, <b>Sun Yat-sen University</b> , Guangzhou Major: Software Engineering Thesis: "Sketch Recognition and Semantic Segmentation Based on Neural Network"

## PUBLICATIONS

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1. **Haoran Mo**, Edgar Simo-Serra, Chengying Gao\*, Changqing Zou, and Ruomei Wang. General Virtual Sketching Framework for Vector Line Art. *ACM Transactions on Graphics* (Proceedings of SIGGRAPH), 2021.
2. Changqing Zou<sup>†</sup>, **Haoran Mo**<sup>†</sup> (equal contribution), Chengying Gao\*, Ruofei Du and Hongbo Fu. Language-based Colorization of Scene Sketches. *ACM Transactions on Graphics* (Proceedings of SIGGRAPH Asia), 2019.
3. Yue Huang, **Haoran Mo**, Xiao Liang and Chengying Gao\*. Unpaired Motion Style Transfer with Motion-oriented Projection Flow Network. *IEEE International Conference on Multimedia & Expo* (ICME), 2022.
4. Ruizhi Cao, **Haoran Mo** and Chengying Gao\*. Line Art Colorization Based on Explicit Region Segmentation. *Computer Graphics Forum* (Proceedings of Pacific Graphics), 2021.
5. Changqing Zou<sup>†</sup>, Qian Yu<sup>†</sup>, Ruofei Du, **Haoran Mo**, Yi-Zhe Song, Tao Xiang, Chengying Gao, Baoquan Chen\* and Hao Zhang. SketchyScene: Richly-Annotated Scene Sketches. *European Conference on Computer Vision* (ECCV), 2018.

## OTHER EXPERIENCE

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MAY-JULY 2019	Research Intern, <b>Waseda University</b> , Tokyo Adviser: Prof. Edgar SIMO-SERRA Research on sketch generation and simplification.
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## TALKS

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| AUG 2021 | “General Virtual Sketching Framework for Vector Line Art”<br><i>SIGGRAPH 2021</i> (virtual)          |
| MAY 2021 | “General Virtual Sketching Framework for Vector Line Art”<br><i>CAD/Graphics 2021</i> (Xi'an, China) |
| NOV 2019 | “Language-based Colorization of Scene Sketches”<br><i>SIGGRAPH Asia 2019</i> (Brisbane, Australia)   |

## AWARDS

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1. Shidi CAD & CG Excellent Student Award, 2021.

## SKILLS

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Programming Languages: PYTHON, MATLAB  
Deep Learning Frameworks: TENSORFLOW, PYTORCH

## LANGUAGES

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Mandarin (Basic), Cantonese (Native), English (Fluent)