

# Gen Li

Informatics Forum-1.45, Edinburgh, UK

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## EDUCATION

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<b>University of Edinburgh</b> <i>Ph.D. Robotics and Autonomous Systems - Edinburgh, UK</i>	2021.09 - 2025.08 (Expected)
<b>Sungkyunkwan University</b> <i>M.S. Electrical and Computer Engineering - Suwon, South Korea</i>	2018.09 - 2020.08
<b>Xidian University</b> <i>B.S. Electronic and Information Engineering - Xi'an, China</i>	2014.08 - 2018.06

## RESEARCH INTERESTS

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- Video and Image Segmentation
- Vision-Language Models, Multi-Modal Deep Learning
- Meta Learning, Learning under Limited Supervision

## RESEARCH EXPERIENCE

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<b>Visual Affordance and Object Functionality Understanding</b> <i>PhD's Research, Supervisor: Dr. Laura Sevilla-Lara</i>	2021.09 - Present
<b>Prototypical Learning for Few-Shot Semantic Segmentation</b> <i>Visiting Researcher in the UoE, Supervisor: Dr. Laura Sevilla-Lara</i>	2020.10 - 2021.08
<b>Neural Network Design for Real-time Semantic Segmentation</b> <i>Master's Research, Supervisor: Prof. Joongkyu Kim</i>	2019.06 - 2020.07
<b>Semantic Image Segmentation Based on Deep Learning</b> <i>Undergraduate Thesis, Supervisor: Prof. Cheolkon Jung</i>	2017.11 - 2018.06

## SELECTED PUBLICATIONS

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- One-Shot Open Affordance Learning with Foundation Models  
**Gen Li**, Deqing Sun, Laura Sevilla-Lara, Varun Jampani [[pdf](#)]  
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024*
- LOCATE: Localize and Transfer Object Parts for Weakly Supervised Affordance Grounding  
**Gen Li**, Varun Jampani, Deqing Sun, Laura Sevilla-Lara [[pdf](#)] [[code](#)]  
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023*
- Adaptive Prototype Learning and Allocation for Few-Shot Segmentation [[pdf](#)] [[code](#)]  
**Gen Li**, Varun Jampani, Laura Sevilla-Lara, Deqing Sun, Jonghyun Kim, Joongkyu Kim  
*IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021*
- DABNet: Depth-wise Asymmetric Bottleneck for Real-time Semantic Segmentation [[pdf](#)] [[code](#)]  
**Gen Li**, Joongkyu Kim  
*British Machine Vision Conference (BMVC), 2019*
- Depth-wise Asymmetric Bottleneck with Point-wise Attention Decoder for Real-time Semantic Segmentation in Urban Scenes [[pdf](#)]  
**Gen Li**, Shenlu Jiang, Inyong Yun, Jonghyun Kim, Joongkyu Kim  
*IEEE Access (SCI, IF: 4.098)*
- Weakly Supervised Temporal Attention 3D Network for Human Action Recognition [[pdf](#)]  
Jonghyun Kim, **Gen Li**, Inyong Yun, Cheolkon Jung, Joongkyu Kim  
*Pattern Recognition (SCI, IF: 7.196)*
- Edge and Identity Preserving Network for Face Super-Resolution [[pdf](#)] [[code](#)]  
Jonghyun Kim, **Gen Li**, Inyong Yun, Cheolkon Jung, Joongkyu Kim  
*Neurocomputing (SCI, IF: 4.438)*

- Referenceless User Controllable Semantic Image Synthesis [[pdf](#)]  
Jonghyun Kim, **Gen Li**, Joongkyu Kim  
*International Joint Conference on Neural Networks (IJCNN)*, 2023
- SuperStyleNet: Deep Image Synthesis with Superpixel Based Style Encoder [[pdf](#)] [[code](#)]  
Jonghyun Kim, **Gen Li**, Cheolkon Jung, Joongkyu Kim  
*British Machine Vision Conference (BMVC)*, 2021
- An Optimized Deep Neural Network Detecting Small and Narrow Rectangular Objects in Google Earth Images [[pdf](#)]  
Shenlu Jiang, Wei Yao, Man-sing Wong, **Gen Li**, Zhonghua Hong, Tae-yong Kuc, Xiaohua Tong  
*IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (SCI, IF:3.827)*
- Perspective-Aware Density Regression for Crowd Counting [[pdf](#)]  
Yutong Wang\*, **Gen Li\***, Qi Zhang, Joongkyu Kim, Huifang Li  
*IEEE International Conference on Image Processing (ICIP)*, 2021
- Progressive Face Super-Resolution with Non-Parametric Facial Prior Enhancement [[pdf](#)]  
Jonghyun Kim, **Gen Li**, Cheolkon Jung, Joongkyu Kim  
*IEEE International Conference on Image Processing (ICIP)*, 2021

## WORK EXPERIENCE

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**Huawei, Noah's Ark Lab, London**

2023.07 - 2024.02

Research Intern - Affordance-driven Robotic Manipulation

## ACADEMIC SERVICE

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### Reviewer

- Conference - ECCV 2024, CVPR2024
- Journal - IEEE Transactions on Image Processing (TIP), Neurocomputing

### Teaching

*University of Edinburgh*

- Introductory Applied Machine Learning - Demonstrator and Tutor [Spring 2023]
- Applied Machine Learning - Teaching Assistant [Fall 2022]

*Sungkyunkwan University*

- Digital Signal Processing - Teaching Assistant [2018-2020]

## LANGUAGE PROFICIENCY

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- English - IELTS 7.5 (L:8, R:6.5, W:6.5, S:8)
- Korean - TOPIK II level 5
- Chinese - Native

## AWARDS AND GRANTS

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- Ph.D. - EPSRC funded CDT-RAS Scholarship, 100% tuition waiver and an annual stipend
- M.S. - STEM Scholarship, 100% tuition waiver, Samsung Funding
- State Scholarship for Study Abroad, China Scholarship Council of P.R. China

## PROFESSIONAL SKILLS

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- Programming Language: Python, C/C++, LaTeX, Matlab, HTML/CSS, etc.
- Frameworks and Tools: Pytorch/Tensorflow/Keras, Git, Docker, Linux Bash, etc.