

# JINMING SU (苏金明)

Beijing, China

✉ sujinming@meituan.com · ☎ (+86) 188-1172-6607

## 👤 ABOUT

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I currently work as an algorithm engineer at **Meituan**. I am broadly interested in solving real-world visual understanding problems with optimization/learning-based algorithms. Recently, I am interested in developing learning and optimization frameworks for **Scene Understanding**.

## 👥 EXPERIENCE

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**Meituan**, Beijing, China Feb. 2020 – Present  
*Algorithm Engineer*

Focus on scene understanding in road scenes, mainly image semantic/instance segmentation.

**Peng Cheng Laboratory (PCL)**, Shenzhen, China Dec. 2018 – Mar. 2019  
*Assistant Researcher Intern*

Engaged in the basic research work of computer vision. During this period, a remarkable algorithm focusing on “error-perception” was proposed, and achieved the new state-of-the-art.

## 🎓 EDUCATION

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**Beihang University (BUAA)**, Beijing, China Sept. 2017 – Jan. 2020  
*M.Sc. in Computer Science and Technology*, ranked 9/303, top 3.0%  
– State Key Laboratory of Virtual Reality Technology and Systems, SCSE  
– Thesis: 场景和任务引导的图像显著内容解析  
– Supervisor: Jia Li

**Northeastern University (NEU)**, Shenyang, China Sept. 2013 – Jun. 2017  
*B.Eng. in Computer Science and Technology*, ranked 10/258, top 3.9%  
– Thesis: 基于移动终端的室外场景语义分割方法与系统  
– Recommended for admission to Beihang University without exams

## 📖 SELECTED WORKS

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1. **Jinming Su**, Jia Li, Yu Zhang, Changqun Xia and Yonghong Tian. Selectivity or Invariance: Boundary-aware Salient Object Detection. *IEEE International Conference on Computer Vision (ICCV)*, 2019.
2. Jia Li, **Jinming Su**, Changqun Xia, Yonghong Tian. Distortion-adaptive Salient Object Detection in 360° Omnidirectional Images. *IEEE Journal of Selected Topics in Signal Processing (J-STSP)*, 14(1), pp.38-48, 2020.
3. **Jinming Su**, Changqun Xia and Jia Li. Exploring Driving-aware Salient Object Detection via Knowledge Transfer. *IEEE International Conference on Multimedia and Expo (ICME)*, 2021. (oral)
4. Jia Li, **Jinming Su**, Changqun Xia, Yonghong Tian. Salient Object Detection with Purificatory Mechanism and Structural Similarity Loss. (Under review)
5. Changqun Xia, Jia Li, **Jinming Su** and Yonghong Tian. Relating Background to Foreground: Exploring Reciprocal Attention for Salient Object Detection by Cooperative Learning. (Under review)
6. Changqun Xia, Jia Li, **Jinming Su** and Ali Borji. Learning a saliency evaluation metric using crowdsourced

perceptual judgments. *arXiv preprint arXiv:1806.10257*, 2018. (Under review)

7. Changqun Xia, Jia Li, **Jinming Su**, Qiping Zhao. Image salient object segmentation method and apparatus based on reciprocal attention between foreground and background. (Patents, publication)

8. 李甲、**苏金明**、夏长群、吴俊杰、赵沁平。用于分割图像的方法、装置、设备和计算机可读介质。(Patents, in application)

9. 李甲、**苏金明**、夏长群、赵沁平。一种图像显著对象分割方法及装置。(Patents, in application)

10. 李甲、**苏金明**、夏长群、赵沁平。图像前景物体分割方法及装置。(Patents, in application)

11. 李甲、**苏金明**、夏长群、赵一凡、赵沁平。一种图像前景物体分割方法。(Patents, in application)

12. 李甲、**苏金明**、夏长群、赵沁平。图像显著性预测结果的评价方法和装置。(Patents, in application)

13. 李甲、夏长群、**苏金明**、赵沁平。基于前背景相互关系的图像显著对象分割方法及装置。(Patents, in application)

## ⚙️ SKILLS

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- Specialize in deep learning for computer vision, especially semantic/instance/panoptic segmentation
- passed CET6, good at academic writing and presentation
- Familiar with deep learning libraries Pytorch/Caffe
- Familiar with Python/Matlab/C++, Linux
- Familiar with data structure and algorithm

## ★ PROJECTS & ACTIVITIES

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- Reviewer of CVPR 2021, ICCV 2021, MIPR 2019/2020/2021
- Teaching assistant for *Machine Learning and Its Engineering Foundation* at BUAA, Spring 2018
- Designed and developed the official website of my laboratory CVTEAM <http://cvteam.net>
- Participated in the design and development of program online judge platform for NEU <https://oj.neu.edu.cn>
- Member of the ACM-ICPC team of NEU
- Github: <https://github.com/Jinming-Su>
- Old blog: <https://blog.csdn.net/u014451076>
- Homepage: <http://sjming.net>

## 🏆 SELECTED HONOURS

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- Outstanding Master Graduate of Beijing, 2020
- Outstanding Master Graduate Thesis of BUAA, 2020
- National Scholarship, 2019
- Huawei Scholarship, 2019
- Outstanding Student of BUAA, 2019
- Merit Student of BUAA, 2018/2019
- Outstanding Undergraduate Thesis of NEU, 2017
- National Encouragement Scholarship, 2014-2016
- The Zhou Kun Scholarship, four times, 2013-2016
- Excellent Student of NEU, 2014/2015
- Second Prize of the National English Competition for College Students, 2015
- First Prize of the Liaoning Province ACM-ICPC Contest, 2014/2015
- Second Prize of the China Undergraduate Mathematical Contest in Modeling, 2014
- Third prize of the Northeast Region ACM-ICPC Contest, 2014

- Outstanding Individual of Scientific and Technological Innovation of Northeastern University, 2014

## ♥ MORE PERSONAL INFORMATION

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- Date of birth: Jan. 25, 1995
- Native place: Yuzhou City, Henan Province (河南禹州)
- Political appearance: Member of the Communist Party of China (CPC)
- I am a good partner, able to adapt to different circumstances quickly, responsible, optimistic and easy to communicate. At the same time, I have certain academic and engineering ability, and am willing to solve challenging problems.