Curriculum Vitae of Sen He

CONTACT INFORMATION	Alan Turing Building (BB), University of Surrey GU2 7XH, Guildford, UK	0044-7751580133 sen.he@surrey.ac.uk

RESEARCH INTERESTS
Computer Vision, Machine Leaning, Attention Models in Computer Vision, Few-Shot Learning, Generative Adversarial Networks

EDUCATION

University of Exeter, Exeter, UK

Ph.D., Computer Science, Nov 2016 - April 2020
- Thesis Topic: *Visual Attention in Computer Vision*
- Advisors: Dr. Nicolas Pugeault and Prof. Richard Everson

University of Edinburgh, Edinburgh, UK

MSc, Signal Processing and Communications, Sep 2015 - Sep 2016

Nanjing University of Posts and Telecommunications, Nanjing China

B.S., Communication Engineering, Sep 2011 - Jun 2015

WORKING EXPERIENCE

Research Fellow   May 2020-Present
Research Fellow at **CVSSP**, **University of Surrey**, working with **Prof. Tao Xiang** and **Dr. Yi-Zhe Song**.

Summer Internship   Summer 2019
Toshiba Cambridge Research Lab, Computer vision Group
Project: Spherical CNN for Image Semantic Segmentation

PROJECTS

EP/N035399/1–Co-Investigator
- EPSRC research grant   Dec,2016–May,2018
    - DEVA-Autonomous Driving with Emergent Visual Attention

PROGRAMMING SKILL

Programming Language
- Python, Matlab, C

Machine Learning framwork
- Pytorch, Tensorflow

TEACHING EXPERIENCES

Teaching Assistant   Spring 2017
ECCM1416, Computational Mathematics
Instructor: Dr. Nicolas Pugeault
Department of Computer Science,
University of Exeter

Teaching Assistant   Winter 2018
ECM3423, Computer Graphics
Instructor: Dr. Anastasios (Tassos) Roussos
Department of Computer Science,
University of Exeter

PUBLICATIONS

1. Sen He, Wentong Liao, Michael Yang, Yongxin Yang, Yi-Zhe Song, Bodo Rosenhahn, Tao Xiang. "Context-Aware Layout to Image Generation with Enhanced Object Appearance" *CVPR,2021*

2. Sen He, Wentong Liao, Hamed R. Tavakoli, Michael Yang, Bodo Rosenhahn, Nicolas Pugeault . "Image Captioning through Image Transformer" *ACCV,2020*

3. Chao Zhang, Sen He, Stephan Liwicki. "A Spherical Approach to Planar Semantic Segmentation" *BMVC,2020*

4. Sen He, Hamed R. Tavakoli, Ali Borji, Nicolas Pugeault. "Human attention in Image Captioning: Datasets and Analysis" *ICCV,2019*

5. Sen He, Hamed R. Tavakoli, Ali Borji, Yang Mi, Nicolas Pugeault. "Understading and Visualizing Deep Visual Saliency Models" *CVPR,2019*

6. Sen He, Kangin Dmitry, Yang Mi, Nicolas Pugeault. "Aggregated Sparse Attention for Steering Angle Prediction" *ICPR, 2018*

7. Sen He, Ali Borji, Yang Mi, Nicolas Pugeault. "What Catches the Eye? Visualizing and Understanding Deep Saliency Models" *arXiv:1803.05753*

8. Sen He, Nicolas Pugeault. "Deep saliency: What is learnt by a deep network about saliency?" *2nd Workshop on Visualisation for Deep Learning, ICML, 2017*