

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 Learning, Attention Models in Computer Vision, Few-Shot Learning, Generative Models
--------------------	-----------------------------------------------------------------------------------------------------------------

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 Research Fellow at CVSSP, University of Surrey , working with Prof. Tao Xiang and Dr. Yi-Zhe Song . Summer Internship Toshiba Cambridge Research Lab, Computer vision Group Project: Spherical CNN for Image Semantic Segmentation	May 2020-Present Summer 2019
--------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------

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

PROGRAMMING SKILL	Programming Language • Python, Matlab, C Machine Learning framework • Pytorch, Tensorflow
-------------------	----------------------------------------------------------------------------------------------------

TEACHING EXPERIENCES	Teaching Assistant ECCM1416, Computational Mathematics Instructor: Dr. Nicolas Pugeault Department of Computer Science, University of Exeter Teaching Assistant ECM3423, Computer Graphics Instructor: Dr. Anastasios (Tassos) Roussos Department of Computer Science, University of Exeter	Spring 2017 Winter 2018
----------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------

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" <i>CVPR,2021</i> 2. Sen He, Wentong Liao, Hamed R. Tavakoli, Michael Yang, Bodo Rosenhahn, Nicolas Pugeault . "Image Captioning through Image Transformer" <i>ACCV,2020</i>
--------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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. “Understanding 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*