Curriculum Vitae of Sen He

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RESEARCH Computer Vision, Machine Leaning, Attention Models in Computer Vision, Interests 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 Research Fellow May 2020-Present EXPERIENCE 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 Language

Skill • Python, Matlab, C

Machine Learning framwork

• Pytorch, Tensorflow

Teaching Assistant Spring 2017

EXPERIENCES 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
- 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