GURKIRT SINGH

gurkirt.singh-2015@brookes.ac.uk http://gurkirt.github.io/

EDUCATION & EXPERIENCE

Borealis AI, Canada Research Intern; Supervised by Greg Mori & Leonid Sigal	Feb. 2019 - May 2019
Disney Research, USA R&D Lab Associate (Research Intern); Supervised by Leonid Sigal & Andreas Lehrmann	Feb. 2017 - Jul. 2017
Oxford Brookes University, UK Ph.D in Computing and Maths; Supervised by Fabio Cuzzolin	Sep. 2015 - Nov. 2019
Siemens Corporate Research, India Research Engineer	Oct. 2013 - Aug. 2015
INRIA, France Research Intern & Engineer; Supervised by Radu Horaud & Georgios Evangelidis	Feb. 2013 - Sept. 2013
Institut Polytechnique de Grenoble, France MSc in Informatics at ENSIMAG; Supervised by Radu Horaud & Georgios Evangelidis	Sep. 2012 - Jun. 2013
University of Edinburgh, UK Research Intern; Supervised by Bob Fisher	Jan. 2010 - May 2010
VIT University, Vellore, India B.Tech; Supervised by Bob Fisher & Arulmozhivarman Pachiyappan	Aug. 2006 - May 2010

RESEARCH INTERESTS

Computer Vision

Causal Representation Learning, Video Feature Learning, Spatiotemporal Action Detection, Future Action Prediction

SELECTED PUBLICATIONS

Causal Spatiotemporal Representations

Gurkirt Singh and Fabio Cuzzolin

Workshop on Large Scale Holistic Video Understanding, ICCV, 2019

An End-to-End Baseline for Video Captioning

Silvio Olivastri, **Gurkirt Singh** and Fabio Cuzzolin

Workshop on Large Scale Holistic Video Understanding, ICCV, 2019

Action Detection from a Robot-Car Perspective

Gurkirt Singh*, Stephen Akrigg*, Valentina Fontana*, Manuele Di Maio, Suman Saha, Fabio Cuzzolin Preprint arXiv: 1807.11332, 2018

TraMNet - Transition Matrix Network for Efficient Action Tube Proposals

Gurkirt Singh, Suman Saha and Fabio Cuzzolin

Asian Conference on Computer Vision (ACCV), 2018

Incremental Tube Construction for Human Action Detection

Harkirat Behl, Michael Sapienza **Gurkirt Singh**, Suman Saha, Fabio Cuzzolin and Philip Torr British Machine Vision Conference (BMVC), 2018

Predicting Action Tubes

Gurkirt Singh, Suman Saha and Fabio Cuzzolin

Workshop on Anticipating Human Behavior, ECCV 2018

Online Real-time Multiple Spatiotemporal Action Localisation and Prediction

Gurkirt Singh, Suman Saha, Michael Sapienza, Philip Torr and Fabio Cuzzolin International Conference on Computer Vision (ICCV), 2017

AMTnet: Action-Micro-Tube Regression by end-to-end Trainable Deep Architecture

Suman Saha, Gurkirt Singh and Fabio Cuzzolin

International Conference on Computer Vision (ICCV), 2017

Deep Learning for Detecting Multiple Space-Time Action Tubes in Videos

Suman Saha, Gurkirt Singh, Michael Sapienza, Philip Torr and Fabio Cuzzolin

British Machine Vision Conference (BMVC), 2016

Untrimmed Video Classification for Activity Detection: Submission to ActivityNet Challenge Gurkirt Singh and Fabio Cuzzolin,

ActivityNet Challenge Workshop, CVPR 2016

Skeletal Quads: Human action recognition using joint quadruples

Georgios Evangelidis, Gurkirt Singh, Radu Horaud

International Conference on Pattern Recognition Vision (ICPR), 2014

Continuous Gesture Recognition from Articulated Poses

Georgios Evangelidis, **Gurkirt Singh**, Radu Horaud

Workshop on Looking at People (Chalearn), ECCV 2014

AWARDS & CHALLENGES

Doctoral Consortium : Selected for Doctoral Consortium Award ICCV-2019	2019
Best Reviewer: Selected as the best reviewer for ICCV-2019	2019
PhD Scholarship: 150th Anniversary PhD Scholarship, Oxford Brookes University	2015
Charades-Challenge 2017: Acton Recognition and Segmentation tasks (Rank: $2/10$ and $3/6$)	2017
ActivityNet-Challenge 2017: Classification tasks (Rank 3/29)	2017
ActivityNet-Challenge 2016 : Classification and Detection tasks (Rank $10/24$ and $2/6$)	2016
Chalearn-Challenge 2014: Looking at People Challenge (Gesture Detection Task Rank 7/17)	2014

SKILLS

Programming: Python, Matlab, C/C++, Lua

Deep Learning Platforms: PyTorch, Torch, Caffe, TensorFlow

Libraries: Numpy, Scipy, Scikit-Learn, OpenCV, Eigen, Kinect SDK

Operating Systems: Linux, macOS, Windows

TEACHING EXPERIENCE

Machine Learning: Teaching Assistant (Postgraduate) 2018

Computer Vision and Machine Learning: Guest lecturer (Postgraduate) 2016, 2017, 2018

Understanding Programming: Lab Assistant (Undergraduate) 2015, 2016

REVIEWER

Best reviewer award ICCV 2019

TPAMI 2017, 2018, ICCV 2019, CVPR 2018, BMVC 2019, and IJCIA 2017, 2018, 2019

MORE INFORMATION

Google Scholar: https://scholar.google.com/citations?user=w8XHUMIAAAAJ&hl=en

Homepage: http://gurkirt.github.io/

Github: https://github.com/gurkirt

LinkdIn: https://www.linkedin.com/in/gurkirt/