

GURKIRT SINGH

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EDUCATION & EXPERIENCE

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

RESEARCH INTERESTS

Computer Vision	Causal Representation Learning, Video Feature Learning, Spatiotemporal Action Detection, Future Action Prediction
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SELECTED PUBLICATIONS

Recurrent Convolutions for Causal 3D CNNs

Gurkirt Singh and Fabio Cuzzolin

Workshop on Large Scale Holistic Video Understanding, ICCVW, 2019

An End-to-End Baseline for Video Captioning

Silvio Olivastri, Gurkirt Singh and Fabio Cuzzolin

Workshop on Large Scale Holistic Video Understanding, ICCVW, 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, ECCVW, 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, CVPRW, 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>

LinkedIn: <https://www.linkedin.com/in/gurkirt/>