

# Qi RAO

## CONTACT

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## EXPERIENCE

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| JUN 2017 - SEPT 2017 | <b>Research Intern at SEETATECH, BEIJING</b><br>Worked as full-time intern under supervision of Dr. Jie Zhang and <a href="#">Prof. Shiguang Shan</a> . Help to remove waterwave on document photos with deep convolutional networks. Efficiently improve face detector's performance. Projects finished by myself went into production system. |
| JAN 2016 - JUN 2017  | <b>Research Intern at ICT, CHINESE ACADEMIC OF SCIENCE<br/>Multimedia Group</b><br>Researched in visual tracking field, in particular human tracking, with emphasis on speed accelerating and performance improving. Familiar with basic deep learning knowledge and tools.   |
| JUNE-SEPT 2015       | <b>Developer Intern at TSINGHUA UNIVERSITY<br/>Division of Computer Science And Technology</b><br>Worked as a developer intern with <a href="#">Yutian Li</a> . Most work done in Node.js. Assisted in development of an online medical care system.  |
| NOV 2015 - SEPT 2014 | <b>Research Intern at BUPT<br/>State Key Laboratory of Networking And Switching Technology</b><br>Took part in innovative projects, with focus on problems about wifi Self-configuration, Load Balance. Became interested in machine learning and data mining technologies.   |

## EDUCATION

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| MAR 2018 -          | <b>Ph.D candidate<br/>University of Technology Sydney</b><br>Under supervision of <a href="#">Prof. Yi Yang</a> . I will take a half gap year and return.  |
| AUG 2013 - JUN 2017 | <b>Bachelor of Science(Engineering) with Honours, E-COMMERCE<br/>ELECTRONIC ENGINEERING AND COMPUTER SCIENCE<br/>Queen Mary University of London<br/>WITH HONOURS - SECOND CLASS(UPPER DIVISION)</b> |
| AUG 2013 - JUN 2017 | <b>Bachelor of Management, E-COMMERCE ENGINEERING WITH LAW<br/>Beijing University of posts and telecommunications<br/>Overall GPA:87.42, ranking: 4/172</b>  |

## PROJECTS

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| <b>WAVENET</b>      | <i>Deep fully-convolutional network for waterwave removal</i><br>Designed a deep fully-convolutional network for the specific task of removing waterwave on document photos, whose architecture combined the FCN and ResNet-101. Experiments evaluated with different loss function design, including pixel-wise loss, perceptual loss and GAN. This work improved the performance of face detection and finally went into production system. |
| <b>MDNET+</b>       | <i>An improved tracking framework for human target</i><br>Reimplemented MDNet with Caffe. Accelerated the online tracking speed. Improved human tracking representation ability with supplementary training on self-built dataset.  |
| <b>POSEDETECTOR</b> | <i>Human pose detection and reminding system</i><br>Obtained the skeleton information by 3d camera, implemented self-refinement algorithm to judge human pose in real-time.   |
| <b>OLRENTING</b>    | <i>A generic E-commerce online shopping framework</i>   |