

# KEYU LONG

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## EDUCATION

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<b>University of Toronto</b> , Department of Computer Science	Toronto, ON
<i>Master of Science in Applied Computing (MScAC)</i>	Sep 2019 - Dec 2020
• <b>Courses:</b> Perception for Robotics; Parallel and Distributed Computing; Private Data Analysis	
<b>University of Chinese Academy of Sciences</b>	Beijing, China
<i>Bachelor of Math and Applied Math, Merit Student Award(2018)</i>	Sep 2014 - Jun 2018

## PROFESSIONAL EXPERIENCES

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<b>SenseTime, R&amp;D Dept.</b>	Beijing, China
<i>Computer Vision Research Intern</i>	Aug 2018 - Apr 2019
• Research the unsupervised image classification algorithm based on AutoEncoder and clustering methods on ImageNet.	
• Apply to the face dataset to be the pipeline for processing monitoring data.	
• Published a paper on 2019 ICCV Conference (as co-first author).	

## PUBLICATION

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- Jianlong Wu\*, **Keyu Long\***, Fei Wang, Chen Qian, Cheng Li, Zhouchen Lin. “Deep Comprehensive Correlation Mining For Image Clustering”. ICCV 2019
- Shuang Yang, Yuanhang Zhang, Dalu Feng, Mingmin Yang, Chenhao Wang, Jingyun Xiao, **Keyu Long**, Shiguang Shan and Xilin Chen. “LRW-1000: A Naturally-Distributed Large-Scale Benchmark for Lip Reading in the Wild”. FG 2019

## RESEARCH EXPERIENCES

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<b>Researching Lip-reading based on Deep Learning</b>	ICT, CAS
<i>Undergraduate RA under Prof. Shiguang Shan</i>	May 2017 - Sep 2017
• Video classification using P3D and PreRNN, investigated 2D-3D combination methods with attention mechanism.	
• Contributed to the largest lip-reading dataset in China, published a paper on FG 2019 IEEE.	

<b>Mathematical Principles in GAN</b>	UCAS
<i>Bachelor thesis under Prof. Zhiming Ma</i>	Jan 2018 - Jun 2018
• Researched characteristics of GAN and wGAN, including convergence, Lipschitz limitation, and error estimation. Determined the estimated error of the Lipschitz limitation in neural network.	
• Thesis was awarded “Excellent Bachelor’s Thesis”.	

<b>RoboMaster National Robot Contest</b>	Institute of Automation
• Processed robotic vision signal. Got familiar with OpenCV, robotic control theories, and hardware functions	
• Got third prize in RoboMaster national college students robot contest, 2016	

## SKILLS

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**Programming languages:** Python, JavaScript, Matlab, C/C++, Java  
**Tools:** PyTorch, TensorFlow, numerical libraries, git, OpenCV, Spark, LaTeX  
**Languages:** English, Chinese