## Zekun Tong

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EDUCATION	
National University of Singapore, School of Engineering PhD in Industrial Systems Engineering   Supervisor: Professor Andrew Lim	Kent Ridge, Singapore Aug. 2018 – Present
Xidian University, School of Computer Science and Technology B.E. in Computer Science and Technology   Studied in Excellence Engineer Class	Xi'an, Shaanxi, China Sept. 2014 – Jun. 2018
Experience	
Undergraduate Research Assistant  National University of Singapore  • Developed an indoor navigation system based on machine learning and multi-sensor detection.  • Implemented Android app to collect multi-sensor data fingerprint and machine learning back-end for	Jan. 2018 – Jun. 2018  Kent Ridge, Singapore
Research Intern Sungkyunkwan University  • Learned in the DATES lab to combine numerical methods with wafer/chip testing.  • Developed a Virtual Probe algo using Matlab to find min cost and analyse silicon characterization	Jan. 2017 – Mar. 2017 Suwon, Korea
Publications	
Generalizable Person Re-identification with Relevance-aware Mixture of Experts   CVPR 2021, poster, acceptance rate: 22.2%  • Yongxing Dai, Xiaotong Li, Jun Liu, Zekun Tong, Ling-yu Duan	Mar. 2021
<ul> <li>Digraph Inception Convolutional Networks   NeurIPS 2020, poster, acceptance rate: 20.1%</li> <li>Zekun Tong, Yuxuan Liang, Changsheng Sun, Xinke Li, David S. Rosenblum, Andrew Lim</li> </ul>	Sept. 2020
Campus3D: A Photogrammetry Point Cloud Benchmark for Hierarchical Understanding of Outdoor Scene   ACM MM 2020, oral, acceptance rate: 8.  • Xinke Li, Chongshou Li, Zekun Tong, Andrew Lim, Junsong Yuan, Yuwei Wu, Jing Tang, Raym	
Fine-Grained Urban Flow Inference   <i>IEEE TKDE</i> • Kun Ouyang, Yuxuan Liang, Ye Liu, <b>Zekun Tong</b> , Sijie Ruan, Yu Zheng, David S. Rosenblum	Jul. 2020
Projects	
<ul> <li>Campus3D   A large-scale 3D point cloud dataset of NUS campus</li> <li>Collaborated to annotate point cloud data and propose an effective framework for Hierarchical Lee</li> <li>Implemented DGCNN with proposed framework using PyTorch to obtain fine-grained hierarchical</li> <li>Developed project website, including dataset downloads, visualization, benchmark, etc. The home</li> </ul>	l labels.
<ul> <li>IPPT Trainer   An application for recording fitness tests using body posture recognition</li> <li>Co-developed with Singapore Ministry of Defence to monitor fitness training automatically. See de</li> <li>Collaborated to design real-time push- &amp; sit-ups counting algo using keypoints detection based on</li> <li>Implemented low-latency image streaming module using WebRTC to reduce the computing load of</li> </ul>	OpenPose.
Patents	
An Anti-motion Sickness Seat and a balancing method   China Invention Grant (ZL201510300. An Image Stabilization and Service Software for Ships   China Software Copyright (2016SR047 An Anti-motion Sickness Seat   China Utility Mode (ZL201520377894.6) An Inflatable Adjustable Protective Cover   China Utility Model (ZL201220750284.2) An Earbud that Pauses and Plays Music Automatically   China Utility Model (ZL20122075029	May. 2016 Oct. 2015 Jul. 2013
Awards	
Finalist Winner of Interdisciplinary Contest in Modeling (MCM/ICM)   winning rate: 0.3% Third Prize in "Challenge Cup" National Science and Technology Innovation Contest First Prize in Microsoft Imagine Cup (Shaanxi)	Mar. 2016 Nov. 2015 May. 2017

## Honors

Research Scholarship at NUS	2018 - 2022
Graduate Star of Xidian University (10 out of 5357 graduates)	Jun. 2018
Huawei Scholarship (two times)	2017, 2018
National Scholarship	Oct. 2017
National Scholarship for Encouragement	Oct. 2016
China Aerospace Science and Technology Corporation (CASC) Scholarship	Apr. 2016
Professional Activities	
Reviewer of Conference on Neural Information Processing Systems (NeurIPS 2021)	Apr. 2021
Reviewer of International Conference on Machine Learning (ICML 2021)	Feb. 2021
Reviewer of Conference on Computer Vision and Pattern Recognition (CVPR 2021)	Dec. 2020
Programming Skills	

 $\label{languages: Python, C/C++, Matlab, Java, SQL, LATEX, JavaScript, HTML/CSS and others. \\ \textbf{Frameworks: PyTorch, Keras, TensorFlow, React, Node.js and others.}$