

Junwu Weng

Mobile Phone	+86 188-1904-0327	Research	Computer Vision & Computer Graphics
Email	calcifer@outlook.com	Interest	Video Understanding, Pose Estimation,
Homepage	calcifer.me		3D Motion Retargeting, Content Generation

Education

Ph.D. in Electrical and Electronic Engineering Nanyang Technological University Advisor: <i>Prof. Junsong Yuan, Prof. Xudong Jiang</i>	Aug 2015 - May 2020 Singapore
M.Phil. in Signal and Information Processing South China University of Technology Advisor: <i>Prof. Xiangmin Xu</i>	Sep 2012 - July 2015 Guangzhou, China
B.Eng. in Information Engineering - Talented Student Program South China University of Technology	Sep 2008 - July 2012 Guangzhou, China

Experience

Tencent - Senior Researcher <i>Tencent AI Lab, Shenzhen, China</i>	May 2020 - Present
<ul style="list-style-type: none">• Pre-training for Temporal Action Localization and Visual-language Modeling: CVPR'22, ECCV'22• Learning from Noisy Label for Video Classification: AAAI'23• 3D Motion Retargeting, Pose Estimation, Unsupervised Learning	
Tencent - Research Intern <i>Tencent Youtu Lab / Tencent AI Lab, Shanghai / Shenzhen, China</i>	Sep 2019 - May 2020
<ul style="list-style-type: none">• Video Understanding and Neural Network Design: ECCV'20	
Microsoft Research Asia - Visiting Fellow (Research Intern) <i>MSRA Internet Media Group, Beijing, China</i>	Jun 2018 - Nov 2018
<ul style="list-style-type: none">• 3D Online Human Action Recognition from 3D action stream• Supervisor: <i>Dr. Cuiling Lan, Prof. Wenjun Zeng</i>	

Publications

- Zixiao Wang, **Junwu Weng**, Chun Yuan, Jue Wang: *Truncate-Split-Contrast: A Framework for Learning from Mis-labeled Videos*. in Proceedings of the AAAI Conference on Artificial Intelligence (**AAAI**), 2023
- Meng Cao, Tianyu Yang, **Junwu Weng**, Can Zhang, Jue Wang, Yuexian Zou: *LocVTP: Video-Text Pre-training for Temporal Localization*. in European Conference on Computer Vision (**ECCV**), 2022
- Can Zhang, Tianyu Yang, **Junwu Weng**, Meng Cao, Jue Wang, Yuexian Zou: *Unsupervised Pre-training for Temporal Action Localization Tasks*. in Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2022
- **Junwu Weng**, Donghao Luo, Yabiao Wang, Ying Tai, Chengjie Wang, Jilin Li, Feiyue Huang, Xudong Jiang, Junsong Yuan: *Temporal Distinct Representation Learning for Action Recognition*. in European Conference on Computer Vision (**ECCV**), 2020
- **Junwu Weng**, Xudong Jiang, Wei-Long Zheng, Junsong Yuan: *Early Action Recognition with Category Exclusion using Policy-based Reinforcement Learning*. in IEEE Transactions on Circuits and Systems for Video Technology (**T-CSVT**), 2020

- **Junwu Weng**, Chaoqun Weng, Junsong Yuan, Zicheng Liu: *Discriminative Spatio-Temporal Pattern Discovery for 3D Action Recognition*. in IEEE Transactions on Circuits and Systems for Video Technology (**T-CSVT**), 2018
- **Junwu Weng**, Mengyuan Liu, Xudong Jiang, Junsong Yuan: *Deformable Pose Traversal Convolution for 3D Action and Gesture Recognition*. in European Conference on Computer Vision (**ECCV'18**), 2018
- Lihao Ge, Yujun Cai, **Junwu Weng**, Junsong Yuan: *Hand PointNet: 3D Hand Pose Estimation using Point Sets*. in Proc. IEEE Conf. on Computer Vision and Pattern Recognition (**CVPR'18**), 2018 [**Spotlight**]
- **Junwu Weng**, Chaoqun Weng, Junsong Yuan: *Spatio-Temporal Naïve-Bayes Nearest Neighbor for Skeleton-Based Action Recognition*. in Proc. IEEE Conf. on Computer Vision and Pattern Recognition (**CVPR'17**), 2017

Honor & Award

- Ph.D. Research Scholarship, Nanyang Technological University, Singapore 2015 - 2019
- Third Place in Hands In the Million Challenge (HIM2017) Oct 2017
- National Graduate Student Scholarship (*top 3%*), Ministry of Education, China 2013 - 2014
- Second Prize in National Post-Graduate Mathematical Contest in Modeling, CDGDC, China Oct 2013
- First Prize Graduate Student Scholarship, South China Univ. of Tech., China 2012 - 2013

Services

- TPC for Multi-Sensor for Action and Gesture Recognition of ACPR Workshops Nov 2019
- Teaching Assistant of IM1002 Analog Electronics (*Lab*) Spring 2018
- Teaching Assistant of IM2073 Mobile Programming (*Lab*) Spring 2018
- Teaching Assistant of Foundations of Data Science and Machine Learning in Python (*Tutorial*) Fall 2017
- Organizing Committee of 4th International Teochew Doctoral Forum Nov 2016
- Reviewer of Journal TPAMI, TIP, TCSVT, TNNLS, TMM, PR, TVCJ, JVCJ
- Reviewer of Conference CVPR, ICCV, ECCV, NeurIPS, ICLR, AAAI

Skills

Programming C/C++, Matlab, Python (PyTorch), \LaTeX , HTML/CSS
Language Chinese Mandarin (native), English (fluent)