

## EDUCATION

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### National Taiwan University

M.Sc. in Department of Computer Science & Information Engineering 2015–2018  
– GPA: 3.97/4.30, Rank: 60/152

### National Taiwan University

B.Sc. in Department of Computer Science & Information Engineering 2011–2015  
– GPA: 4.02/4.30, Rank: 7/111

## EXPERIENCE

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### AINTU, National Taiwan University

Research Associate Jan. 2021 –Now

### Institute of Information Science, Academia Sinica

Research Assistant Apr. 2019 –Dec. 2020

### NTU IoX Center, National Taiwan University

System Administrator July 2016 –Feb. 2017  
– Maintaining IOX center website, and personal computer troubleshooting

### Institute of Information Science, Academia Sinica

Summer Internship July 2016 –Aug. 2016

### NTU RoboPAL Team, National Taiwan University

Undergraduate Student Feb. 2014 –Jan. 2015  
– Our team makes the top 8 in Standard Platform League of RoboCup 2014 in João Pessoa, Brazil.

## PUBLICATIONS

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- [1] **C.-H. Tu**, H.-F. Yang, S.-M. Yang, M.-C. Yeh, and C.-S. Chen, “Semantichash: Hash coding via semantics-guided label prototype learning”, *IEEE Transactions on Artificial Intelligence (TAI)*, vol. 2, no. 1, pp. 42–57, 2021.
- [2] **C.-H. Tu**, J.-H. Lee, Y.-M. Chan, and C.-S. Chen, “Pruning depthwise separable convolutions for mobilenet compression”, in *IEEE International Joint Conference on Neural Networks (IJCNN)*, 2020, pp. 1–8.
- [3] **C.-H. Tu**, C.-E. Wu, and C.-S. Chen, “Extending conditional convolution structures for enhancing multitasking continual learning”, in *Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC)*, 2020, pp. 1605–1610.
- [4] S. C.-Y. Hung, **C.-H. Tu**, C.-E. Wu, C.-H. Chen, Y.-M. Chan, and C.-S. Chen, “Compacting, picking and growing for unforgetting continual learning”, in *Advances in Neural Information Processing Systems (NeurIPS)*, 2019, pp. 13 669–13 679.
- [5] **C.-H. Tu**, C.-Y. Yang, and J. Y.-j. Hsu, “Idennet: Identity-aware facial action unit detection”, in *IEEE International Conference on Automatic Face & Gesture Recognition (FG)*, 2019, pp. 1–8.

- [6] H.-F. Yang, **C.-H. Tu**, and C.-S. Chen, “Adaptive labeling for deep learning to hash”, in *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops*, 2019.
- [7] H.-F. Yang, **C.-H. Tu**, and C.-S. Chen, “Adaptive labeling for hash code learning via neural networks”, in *IEEE International Conference on Image Processing (ICIP)*, 2019, pp. 2244–2248.
- [8] H.-F. Yang, T.-Y. Chen, **C.-H. Tu**, and C.-S. Chen, “Equivalent scanning network of unpadded cnns”, *IEEE Signal Processing Letters*, vol. 25, no. 10, pp. 1590–1594, 2018.

## AWARDS

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- University Fellowship, Ohio State University 2021
- The Presidential Award (5%), National Taiwan University Fall 2013
- The Presidential Award (5%), National Taiwan University Fall 2012

## CERTIFICATE

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- Reviewer in Pattern Recognition, ELSEVIER 2020

## INVITED TALKS

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- **Compacting, Picking and Growing for Unforgetting Continual Learning** December 2020  
*AI Forum 2020 at Howard Civil Service International House, Taipei, Taiwan*

## SKILLS

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- **Programming Languages:** C/C++, Python, MATLAB, Java
- **Frameworks:** Caffe, Pytorch, Tensorflow, Theano, Numpy, Scikit-learn

## TEACHING

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- **Teaching Assistant** at National Taiwan University Fall 2017  
*Course: Introduction to Digital Signal Processing*