

# Yen-Chi Cheng

## Curriculum Vitae

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📄 <https://yccyenchicheng.github.io/>

## Education

- 2017–2018 **National Taiwan University, Finance (Non-matriculated Status)**, Taipei, Taiwan.  
GPA: 4.30/4.30 (CS related), 4.17/4.30 (Overall)  
Ranking: 5/72  
**Computer Science Courses:** Data Structures and Algorithms, Algorithms, Operating System, Structure and Interpretation of Computer Programs, Discrete Math and Probability, Linear Algebra, Introduction to Computer Science, Machine Learning Foundation, Machine Learning Techniques
- 2017 **University of California, Berkeley, Computer Science**, Berkeley, CA, USA.  
GPA: 3.85/4.00, Summer Session
- 2011–2015 **National Taiwan University, B.A. in Economics**, Taipei, Taiwan.  
GPA: 3.87/4.30 (Last Year)

## Research Interests

Computer Vision, Machine Learning, Deep Learning

## Publications

- ICCV 2019 **Point-to-Point Video Generation**  
**Yen-Chi Cheng\***, Tsun-Hsuan Wang\*, Chieh Hubert Lin, Hwann-Tzong Chen and Min Sun  
IEEE International Conference on Computer Vision (**ICCV**), 2019  
[📄 paper](#) [🔗 code](#) [📄 project](#)  
(\* indicates equal contribution)
- NeurIPS 2018 **Radiotherapy Target Contouring with Convolutional Gated Graph Neural Network.**  
Chun-Hung Chao, **Yen-Chi Cheng**, Hsien-Tzu Cheng, Chi-Wen Huang, Tsung-Ying Ho, Chen-Kan Tseng, Le Lu and Min Sun  
Machine Learning for Health Workshop at Neural Information Processing Systems (**NeurIPS**), 2018  
**Spotlight** (Acceptance Rate: ~ 6%) [📄 paper](#)

## Work Experiences

- 2019–Present **University of California, Merced, Vision and Learning Lab**, Visiting Scholar.  
Advisor: Prof. Ming-Hsuan Yang [📄 homepage](#)  
◦ Project: Stochastic Semantic Layout Generation with VAE.  
◦ Project: Few-shot Fashion Synthesis.
- 2018–2019 **National Tsing Hua University, Vision Science Lab**, Research Assistant.  
Advisor: Prof. Min Sun [📄 homepage](#)  
◦ Project: Medical Image Segmentation with Gated Graph Neural Network.  
◦ Project: Controllable Video Generation with Conditional VAE.

- 2017–18 **RelaJet Tech**, Research Intern.
- Project: Human Voices and Environmental Sound Classification.
  - Project: Source Sounds Separation with Deep Learning.
- 2017 **National Taiwan University, Department of Finance**, Research Assistant.
- Advisor: Prof. Yan-Shing Chen
- Developed a tool to automate the data collection process for the I/B/E/S database.
- 2015–16 **Presidential Office Building**, Corporal of Military Police.
- Presidential Award, 104 Period Reserve Officer of Military Police.
  - Selected to the Presidential Office Building.

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## Selected Projects

- Fall 2019 **PyTorch SegInpaint** [code](#)
- An implementation of image inpainting via segmentation maps.
- Spring 2019 **PyTorch VideoVAE** [code](#)
- An implementation of VAE and RNN for video generation with attribute control.

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## Selected Courseworks

- Computer Vision **Auditing/Online Courses**
- Machine Learning EECS 286: Advanced Topics in Computer Vision (UC Merced), CS231n: Convolutional Neural Networks for Visual Recognition (Stanford), deeplearning.ai (Coursera) [certificate](#)
- Computer Science **University of California, Berkeley**
- CS61A: Structure and Interpretation of Computer Programs, CS70: Discrete Math and Probability
- Udemy:** Python Beyond the Basics - Object-Oriented Programming [certificate](#)
- Coursera:** Divide and Conquer, Sorting and Searching, and Randomized Algorithms (Stanford) [certificate](#)

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## Honors, Skills & Certificates

- Awards ICCV 2019 Travel Award
- Programming Python, C, C++, Java, R
- Toolbox/Software PyTorch, TensorFlow, Torch, Caffe, OpevCV
- Language English: Fluent, Chinese: Native.
- Test Scores GRE: 321, TOEFL: 105, TOEIC: 955.
- Honors Got 1<sup>st</sup> at the entrance exam for MBA in Finance, NTU, out of 411 candidates

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## References

- Research Mentor Ming-Hsuan Yang, *Professor*, University of California, Merced  
✉ mhyang@ucmerced.edu [homepage](#)
- Research Mentor Min Sun, *Associate Professor*, National Tsing Hua University  
✉ sunmin@ee.nthu.edu.tw [homepage](#)
- Research Mentor Hwann-Tzong Chen, *Associate Professor*, National Tsing Hua University  
✉ htchen@cs.nthu.edu.tw [homepage](#)