

# CHOI Ching Lam

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## EDUCATION

**The Chinese University of Hong Kong (CUHK)** Sep 2020 – Present  
*BEng in Artificial Intelligence: Systems & Technologies (AIST)* **GPA: 3.751 / 4.000**  
**Diocesan Girls' School** Sep 2015 – Jul 2020  
**Deeplearning.ai, Coursera** May 2018  
The Deep Learning Specialization : <https://coursera.org/share/79cb80a49acd6d0fe866c9d61702362c>

## PUBLICATIONS & PRE-PRINTS

- [1] Rui Liu, Yixiao Ge, **Ching Lam Choi**, Xiaogang Wang and Hongsheng Li, "DivCo: Diverse Conditional Image Synthesis via Contrastive Generative Adversarial Network", in **CVPR, 2021**
- [2] Yixiao Ge, Xiao Zhang, **Ching Lam Choi**, Ka Chun Cheung, Peipei Zhao, Feng Zhu, Xiaogang Wang, Rui Zhao, Hongsheng Li. "Self-distillation with Batch Knowledge Ensembling Improves ImageNet Classification." arXiv preprint arXiv:2104.13298 (2021)

## WORK & RESEARCH EXPERIENCE

**Topics:** Adversarial training and robustness, self-supervised learning (SSL), generative modeling

**Stanford AI Lab (SAIL), Stanford University :** *Research Intern* Dec 2021 – Present

- **Advisor:** Professor Jiajun Wu
- **Focus:** Scene understanding via Neural Radiance Fields (NeRFs); generalisable, transferable NeRFs

**Multimedia Laboratory, CUHK :** *Research Mentee* Aug 2019 – Present

- **Advisor:** Professor Hongsheng Li
- **Focus:** Self-supervised Learning, Generative models, fine-grained video understanding

**NVIDIA AI Tech Center :** *Research Intern* Sep 2020 – Oct 2021

- **Advisors/Collaborators:** Dr. Charles Cheung, Dr. Simon See
- **Focus:** Audio-visual video understanding; robust, explainable Generative Adversarial Networks

**CUHK UG Summer Research :** *Intern* Jun – Aug 2021

- **Advisor:** Professor Anthony Man-Cho So
- **Focus:** Deep metric-learning for improving DNN generalisation and robustness

**CityU Apps Lab, City University of Hong Kong :** *Summer Lab Intern* Jul 2018 – Sep 2018

- Co-developed learning materials (Python, Tensorflow, linear algebra basics) for CityU's AI Summer Course
- Co-taught & TA'd the AI Summer Course
- Introduced MIT App Inventor to aspiring secondary school teachers through Teach4HK

## PROFESSIONAL VOLUNTEERING & SERVICES

**ICCV 2021 Undergraduates in Computer Vision Social:** *Co-organiser & Panelist* Sep – Oct 2021

- Co-organised the UG in CV Social (*inc. 4 keynotes, 1 student panel, 1 mingling/networking session*) with Samarth Sinha; presented on breaking into and publishing research as an undergraduate.
- Keynote speakers Prof. Animesh Garg, Prof. Hugo Larochelle, Prof. Zeynep Akata, Dr. Nan Rosemary Ke shared insights and answered audience's questions on CV research in academia and the industry.

**ICLR 2022 CoSubmitting Summer Workshop:** *Co-organiser* Aug 2021 – Apr 2022

- Co-organised the CSS Workshop with ICLR DEI Co-chairs Rosanne Liu & Krystal Maughan and more

- CSS supported 55 research proposals by underrepresented groups in ML and first-time ICLR submitters, and provided funding to execute their ideas.

#### **EuroPython 2020 : Speaker**

24 Jul 2020

- Talk: Corona-Net: Fighting COVID-19 With Computer Vision
- Second-largest Python conference in the world (<https://ep2020.europython.eu/talks/HeAc9o4-corona-net/>)

#### **JuliaCon 2020 : Speaker**

31 Jul 2020

- Talk: Julia Track Google Code In and Beyond
- Online conference with over 10,000 unique attendees (<https://juliacon2020.now.sh/talk/HJTZNE>)

#### **Student Code-in 2020: Mentor**

Jun 2020 – Aug 2020

- Mentored students in the 2-months long programme for the Face Mask Detection project, a Computer Vision system based on OpenCV, Tensorflow and Keras ([github.com/chandrikadeb7/Face-Mask-Detection](https://github.com/chandrikadeb7/Face-Mask-Detection))

### PROJECTS

**Corona-Net | Python:** *PyTorch, NumPy, Matplotlib*; **Julia:** *Flux, Images, CuArrays; Git* Mar 2020 – Jul 2020

- Leveraging U-Net and Efficient-Net for CT COVID-19 segmentation and classification
- Python: ([github.com/chinglamchoi/Corona-Net](https://github.com/chinglamchoi/Corona-Net)); Julia: ([github.com/chinglamchoi/JuliaCon](https://github.com/chinglamchoi/JuliaCon))

**MAESTRO.ai TaiChi Tutor |** *Tensorflow.js, Bootstrap, Node.js, Git* Jul 2019 – Jan 2020

- Leveraged Tensorflow.js PoseNet model for real-time 2D Human Pose Estimation
- Bridging the intergenerational communication gap in HK through TaiChi

**Elesafer |** *Python, C++, Darknet, Django* Jul 2018 – May 2019

- Build dataset for and trained YOLOv3 for real-time detection weapons (guns, knives) in CCTV footage

### AWARDS & RECOGNITION

**Google Code In 2019: Runner-up** Dec 2019 – Jan 2020

*Google & The Julia Programming Language*

- Created a second order ordinary differential equations (ODE) solver using Neural Networks
- Code open-sourced at: [github.com/chinglamchoi/GCI-With-Julia](https://github.com/chinglamchoi/GCI-With-Julia)

**The 2nd International Artificial Intelligence Fair: First Prize, Academic Scholarship** Aug 2020

*Sensetime*

- IAIF included 1,000+ projects from China, USA, India, Singapore, Singapore, HK, etc

**The 5th International Invention Innovation Competition in Canada (iCan 2020):** Aug 2020

Best 10 Women Inventors, Special Award (TISIAS), Gold Medal

*Toronto International Society of Innovation & Advanced Skills (TISIAS)*

**Google Hash Code 2020 Online Qualification Round:** Oct 2020

14th in Hong Kong, 2531/10724 worldwide

*Google*

**NASA SpaceApps Challenge 2020: HK global nominee, Best Use of Data Award, Most Inspirational Award** Oct 2020

*NASA, US Consulate General HK & Macau, Hong Kong Observatory, City University of Hong Kong*

**International Symposium on STEM Education 2019: Best Project Champion, Outstanding Performance Award, Academic Scholarship** 25 – 28 Jul 2019

*Microsoft, The University of Hong Kong & HKU Academy for the Talented*

**The 5th International Mathematical Modelling Challenge: First-class Honours (International Round + Greater China Winter Contest), Second-class Honours (Greater China Autumn Contest)** Aug 2020

*International Mathematical Modelling Challenge*

### TECHNICAL SKILLS

**Languages:** English, Mandarin, Cantonese, Python, Julia, C, JavaScript, HTML/CSS

**Libraries:** PyTorch, NumPy, Matplotlib, Pandas, FluxML, SciML, JQuery