Meng-Jiun Chiou

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EDUCATION

Aug. 2017- Present
National University of Singapore, Singapore
Ph.D. in Computer Science
- Supervised by Prof. Roger Zimmermann and Prof. Jiashi Feng
- Worked at Media Management Research Lab and Learning & Vision Lab
- Research Interest: Computer Vision, Machine Learning and Deep Learning

Sep. 2012- Jun. 2016
National Chiao Tung University, Hsinchu, Taiwan
B.Sc. in Electrical and Computer Engineering
- Overall Gpa: 3.89/4.30 (or 3.90/4.00)
- CS Courses: Data Structure, Design and Analysis of Algorithms, Object-Oriented Programming, Computer Vision, Data Mining, Virtual and Augmented Reality, Database

Oct. 2014- Sep. 2015
The University of Tokyo, Tokyo, Japan
Exchange Student in Information and Communication Engineering
- Supervised by Prof. Toshihiko Yamasaki and Prof. Kiyoharu Aizawa
- Worked at Multimedia Processing Lab
- CS Courses: Artificial Intelligence, Statistical Machine Learning, Supercomputer Programming, Computer Architecture, Discrete Mathematics, Operating Systems, Computer Networks

PUBLICATIONS

- **Meng-Jiun Chiou**, Roger Zimmermann and Jiashi Feng, "RVL-BERT: Visual Relationship Detection with Visual-Linguistic Knowledge from Pre-trained Representations". Under reviewing in *The thirty-fifth AAAI Conference on Artificial Intelligence* (AAAI'21), Feb. 2021.

- **Meng-Jiun Chiou**, Zhenguang Liu, Yifang Yin, An-An Liu and Roger Zimmermann, "Zero-Shot Multi-View Indoor Localization via Graph Location Networks". In *Proceedings of the 28th ACM International Conference on Multimedia* (ACMMM'20), Oct. 2020.

- Yifang Yin, **Meng-Jiun Chiou**, Zhenguang Liu, Harsh Shrivastava, Rajiv Ratn Shah and Roger Zimmermann, "Multi-Level Fusion based Class-aware Attention Model for Weakly Labeled Audio Tagging". In *Proceedings of the 27th ACM International Conference on Multimedia* (ACMMM'19), Oct. 2019.

- **Meng-Jiun Chiou**, Yamasaki Toshihiko and Aizawa Kiyoharu, "A Fast Table-Based Approach of Bag-of-Features for Large-Scale Image Classification". In *Image Information and Television Engineers Annual Conference* (ITE'15), Aug. 2015.

- **Meng-Jiun Chiou**, Yamasaki Toshihiko and Aizawa Kiyoharu, "A Fast Method of Visual Words Assignment of Bag-of-Features for Object Recognition". In *The 18th Meeting on Image Recognition and Understanding* (MIRU'15), Jul. 2015.

SELECTED PROJECTS

RW Recognizer
Course Project
Meng-Jiun Chiou, Ting-An Chien and Zhe-Shan Yo, at NCTU
Right Whale Recognizer (RW Recognizer) recognizes right whales' face by training *Fast R-CNN* on a large-scale dataset. The source code on GitHub obtains 70+ stars.
- Source code: https://github.com/coldmanck/fast-rcnn

The Light
Hackathon Project
Meng-Jiun Chiou, Xiao Ma, Yaqi Xie and Ziwei Xu, at the hackathon
The Light navigates blind people to move around smoothly in real time using *MobileNet* for object segmentation. It won 2nd prize at iNTUition Hackathon 2017.
- Project page: https://devpost.com/software/thelight

Serivces and Memberships

- **Program Committee**, CVPR 2018 Workshop on Visual Understanding of Humans in Crowd Scene
- **Reviewer**, ACM MM (2020), IEEE TIP (2018), ACM TOMM (2018), Springer MMSJ (2018)
- **Teaching Assistant**, Computer Vision and Pattern Recognition (NUS, 2018-20), Data Structures and Algorithms (NUS, 2017-18), Special Friday Lecture for High School Students (UTokyo, 2014-15)

Awards and Scholarships

Oct. 2017 **2nd Place**, *iNTUition Hackathon 2017*
- A 24-hour hackathon held at *Nanyang Technological University*, Singapore

Aug. 2017 **NUS Research Scholarship**, *National University of Singapore*
- Including full tuition waiver and monthly stipend.

Oct. 2015 **Helm Technology Scholarship**, *Helm Technology Inc.*
- Awarded to students with superb overall GPA

Oct. 2014 **Student Exchange Support Program**, *Japan Student Services Organization*
- Chosen by *The University of Tokyo*

Oct. 2014 **Short Term Exchange Scholarship**, *National Chiao Tung University*
- Awarded to exchange students with the top 20% overall GPA

May. 2014 **Xiao Yuan-Long Scholarship**, *NCTU Electrical and Computer Engineering* .
- Awarded to students with superb overall GPA

Experience

Jun. 2020- **Research Intern** at *Asus Intelligent Cloud Services (AICS)*, Singapore
Sep. 2020 I developed a strong baseline for video-based human-object interaction detection model for the smart retail initiative. A technical report is in preparation.

Dec. 2015- **Research Assistant** at *Academia Sinica*, Taiwan
Apr. 2016 I worked on image segmentation with Dr. Yu-chiang Frank Wang at *Multimedia and Machine Learning Lab.*

Jul. 2013- **Software Development Intern, Microsoft Student Partners** at *Microsoft Taiwan*
Jun. 2014 I developed a couple of Windows 8 applications, e.g. *NHK Reader* which has been downloaded 7,000+ times.
- *NHK Reader* product page: https://www.microsoft.com/en-us/p/nhk-reader/9wzdncrdqpdb

Skills

- Deep Learning Framework: Proficent in *PyTorch*
- Programming: Proficient in *Python*; Experienced in *C++*, *Matlab* and *Java*
- Languages: Mandarin Chinese (native), English (fluent) and Japanese (fluent; JLPT N1)

Extracurricular Activities

Jun. 2013- **Vice President** at *Chien-Kuo and Taipei First Girls' High School Alumni Association, National Chiao Tung University*
May. 2014 I took on leadership roles by organizing a variety of events.