

Meng-Jiun Chiou

mengjiun.chiou@u.nus.edu

<https://coldmanck.github.io/>

EDUCATION

AUG. 2017- *National University of Singapore*, Singapore

PRESENT **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 (Visual Scene Understanding) and Machine Learning

SEP. 2012- *National Chiao Tung University*, Hsinchu, Taiwan

JUN. 2016 **B.Sc.** in Electrical and Computer Engineering

- Overall GPA: 3.89/4.30 (or 3.90/4.00)
- Computer Science Courses: Data Structure, Design and Analysis of Algorithms, Object-Oriented Programming, Computer Vision, Data Mining, Virtual and Augmented Reality, Database

OCT. 2014- *The University of Tokyo*, Tokyo, Japan

SEP. 2015 **Exchange Student** in Information and Communication Engineering

- Supervised by Prof. Toshihiko Yamasaki and Prof. Kiyoharu Aizawa
- Worked at Multimedia Processing Lab
- Computer Science Courses: Artificial Intelligence, Statistical Machine Learning, Computer Architecture, Discrete Mathematics, Operating Systems, Computer Networks

PUBLICATIONS

- **Meng-Jiun Chiou**, Henghui Ding, Hanshu Yan, Changhu Wang, Roger Zimmermann and Jiashi Feng, “Recovering the Unbiased Scene Graphs from the Biased Ones”, in *Proceedings of the 29th ACM International Conference on Multimedia (ACMMM)*, 2021.
- **Meng-Jiun Chiou**, Chun-Yu Liao, Li-Wei Wang, Roger Zimmermann and Jiashi Feng, “ST-HOI: A Spatial-Temporal Baseline for Human-Object Interaction Detection in Videos”, in *Proceedings of the 2021 Workshop on Intelligent Cross-Data Analysis and Retrieval (ICDAR)*, 2021, pp. 9–17.
- **Meng-Jiun Chiou**, Roger Zimmermann and Jiashi Feng, “Visual Relationship Detection with Visual-Linguistic Knowledge from Multimodal Representations”, *IEEE Access*, vol. 9, pp. 50441–50451, 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)*, 2020, pp. 3431–3440.
- 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)*, 2019, pp. 1304–1312
- **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)*, 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)*, 2015.

SELECTED PROJECT

- Few-Shot Detection* **Meng-Jiun Chiou** and Xiao Ma, at the National University of Singapore
Course Project *Few-Shot Object Detection* is an adaptation to few-shot learning with meta learning based on the Faster R-CNN framework. The project is implemented with PyTorch.
• Demo video: <https://www.youtube.com/watch?v=1e8SCMjNeCE>
- The Light* **Meng-Jiun Chiou**, Xiao Ma, Yaqi Xie and Ziwei Xu, at the hackathon
Hackathon Project *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>

SERVICES AND MEMBERSHIPS

- **Program Committee**, *NeurIPS'21 Workshop on Distribution Shifts in Real-World Applications*, *CVPR'18 Workshop on Visual Understanding of Humans in Crowd Scene*, *BigMM 2020 Graduate Student Consortium*
- **Reviewer**, *ACMMM* ('21/'20), *IEEE TIP* ('20), *ACM TOMM* ('20), *Springer MMSJ* ('19), NUS MSCS Admission ('21, '20)
- **Teaching Assistant**, Big-Data Analytics Technology (NUS, 2021), 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. A paper wrapping up my work has been published to ICDAR'21 (an ACM-ICMR'21 workshop).
- 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 Windows 8 applications, *e.g.*, *NHK Reader* with 7,000+ downloads.
• *NHK Reader* product page: <https://www.microsoft.com/en-us/p/nhk-reader/9wzdnrcrdqpd>

SKILLS

- Deep Learning Framework: Proficient 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*,
MAY. 2014 *National Chiao Tung University*
I took on leadership roles by organizing a variety of events.