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 (Visual Scene Understanding) and Machine 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) • Computer Science 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 • 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'21), Oct. 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 ACM International Conference on Multimedia Retrieval (ACM ICMR'21) Workshop on Intelligent Cross-Data Analysis and Retrieval*, Aug. 2021.

- **Meng-Jiun Chiou**, Roger Zimmermann and Jiashi Feng, "Visual Relationship Detection with Visual-Linguistic Knowledge from Multimodal Representations". In *IEEE Access* 9: 50441-50451, Mar. 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 PROJECT

Few-Shot Detection Course Project	**Meng-Jiun Chiou** and Xiao Ma, at the National University of Singapore *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=le8SCMjNeCE
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

Services and Memberships

- **Program Committee**, *CVPR 2018 Workshop on Visual Understanding of Humans in Crowd Scene, BigMM 2020 Graduate Student Consortium*

- **Reviewer**, *ACM MM* ('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- Sep. 2020	**Research Intern** at *Asus Intelligent Cloud Services (AICS)*, Singapore 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- Apr. 2016	**Research Assistant** at *Academia Sinica*, Taiwan I worked on image segmentation with Dr. Yu-chiang Frank Wang at *Multimedia and Machine Learning Lab*.
Jul. 2013- Jun. 2014	**Software Development Intern, Microsoft Student Partners** at *Microsoft Taiwan* 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/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- May. 2014	**Vice President** at *Chien-Kuo and Taipei First Girls' High School Alumni Association, National Chiao Tung University* I took on leadership roles by organizing a variety of events.