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**, 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), 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), Jul. 2015.

SELECTED PROJECTS

Table-Based BoF Research Project	**Meng-Jiun Chiou**, Yamasaki Toshihiko and Aizawa Kiyoharu, at UTokyo *Table-Based Bag-of-Features* (BoF) is a fast look-up table based method for finding bag-of-features-based indexes of query pictures without feature extraction. • Source code: https://git.io/vFlqP
Few-Shot Detection Course Project	**Meng-Jiun Chiou** and Xiao Ma, at NUS *Few-Shot Object Detection* is an adaptation to few-shot learning with meta learning and is based on Faster-RCNN framework. The project is implemented using PyTorch. • Demo video: https://www.youtube.com/watch?v=le8SCMjNeCE
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 60+ 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**, *IEEE Transactions on Image Processing* (TIP), 2018
- **Member**, *Institute of Electrical and Electronics Engineers* (IEEE), 2018-Present
- **Teaching Assistant**,
  - Data Structures and Algorithms, *National University of Singapore*, 2018
  - Special Friday Lecture for High School Students, *The University of Tokyo*, 2015

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 (NCTU)*
- 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

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

Jul. 2013-
Jun. 2014   **Dev. Team, Microsoft Student Partners** at *Microsoft Taiwan*
I corresponded to develop Windows Applications, e.g. *NHK Reader* has more than 7,000 downloads so far.
- Product page: https://www.microsoft.com/en-us/p/nhk-reader/9wzdncrdqpdb

Skills

- Programming: Proficient in Python, Matlab and C++; Experienced in Java
- Languages: Mandarin Chinese (native), English (fluent) and Japanese (fluent)

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.