

Meng-Jiun Chiou

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

EDUCATION

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

PRESENT **Ph.D.** in Computer Science

- Current CAP: 3.75/5.00
- Supervisor: Assoc. Prof. Roger Zimmermann
- Research Interest: Computer Vision, Machine Learning and Deep 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, Advanced Object-Oriented Programming, Computer Vision, Data Mining, Virtual Reality and Augmented Reality, Introduction to Database

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

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

- Supervisors: Assoc. Prof. Toshihiko Yamasaki and Prof. Kiyoharu Aizawa
- Computer Science Courses: Artificial Intelligence, Introduction to 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 **Meng-Jiun Chiou**, Yamasaki Toshihiko and Aizawa Kiyoharu, at UTokyo
Research Project *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 **Meng-Jiun Chiou** and Xiao Ma, at NUS
Course Project *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 **Meng-Jiun Chiou**, Ting-An Chien and Zhe-Shan Yo, at NCTU
Course Project *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 **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>

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- **Research Assistant (RA)** at *Academia Sinica*
APR. 2016 I worked on image segmentation with Dr. Yu-chiang Frank Wang at *Multimedia and Machine Learning Lab*.
- JUL. 2013- **Dev. Team, Microsoft Student Partners** at *Microsoft Taiwan*
JUN. 2014 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- **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.