

# Meng-Jiun Chiou

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

## EDUCATION

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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, 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)
- CS 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
- CS Courses: Artificial Intelligence, Statistical Machine Learning, Supercomputer Programming, Computer Architecture, Discrete Mathematics, Operating Systems, Computer Networks

## PUBLICATIONS

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- **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

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*Table-Based BoF* **Meng-Jiun Chiou**, Yamasaki Toshihiko and Aizawa Kiyoharu, at UTokyo  
Research Project *Table-Based Bag-of-Features* (Table-Based 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 2<sup>nd</sup> prize at iNTUition Hackathon 2017.  
• Project page: <https://devpost.com/software/thelight>

## SERIVCES AND MEMBERSHIPS

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- **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**,
  - Computer Vision and Pattern Recognition, *National University of Singapore*, 2018-19
  - Data Structures and Algorithms, *National University of Singapore*, 2017-18
  - Special Friday Lecture for High School Students, *The University of Tokyo*, 2014-15

## AWARDS AND SCHOLARSHIPS

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- OCT. 2017    **2<sup>nd</sup> 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

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- DEC. 2015-    **Research Assistant** at *Academia Sinica*  
APR. 2016    I worked on image segmentation with Dr. Yu-chiang Frank Wang at *Multimedia and Machine Learning Lab*.
- JUL. 2013-    **Development Team, Microsoft Student Partners** at *Microsoft Taiwan*  
JUN. 2014    I corresponded to develop Windows applications, e.g. *NHK Reader* having download time of more than 7,000.  
• *NHK Reader* product page: <https://www.microsoft.com/en-us/p/nhk-reader/9wzdncrdqpdb>

## SKILLS

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

## EXTRACURRICULAR ACTIVITIES

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- 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.