

# 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

- 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

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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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|------------------------|--|
| <i>The Light</i>       | <b>Meng-Jiun Chiou</b> , Xiao Ma, Yaqi Xie and Ziwei Xu  |
| Hackathon Project      | <i>The Light</i> navigates blind people to move around both indoors and outdoors in real time using MobileNet with object segmentation. It won 2 <sup>nd</sup> prize at iNTUition Hackathon 2017. <ul style="list-style-type: none"><li>• Source code: <a href="https://devpost.com/software/thelight">https://devpost.com/software/thelight</a></li></ul> |
| <i>Table-Based BoF</i> | <b>Meng-Jiun Chiou</b> , Yamasaki Toshihiko and Aizawa Kiyoharu  |
| Research Project       | <i>Table-Based Bag-of-Features</i> (BoF) is a fast look-up table based method for finding bag-of-features-based indexes of query pictures without feature extraction. <ul style="list-style-type: none"><li>• Source code: <a href="https://git.io/vFlqP">https://git.io/vFlqP</a></li></ul>   |
| <i>RW Recognizer</i>   | <b>Meng-Jiun Chiou</b> , Ting-An Chien and Zhe-Shan Yo   |
| Course Project         | <i>Right Whale Recognizer</i> (RW Recognizer) recognizes right whale’s face by training <i>Fast R-CNN</i> framework on a large-scale dataset. The source code on GitHub obtains 60+ stars. <ul style="list-style-type: none"><li>• Source code: <a href="https://github.com/coldmanck/fast-rcnn">https://github.com/coldmanck/fast-rcnn</a></li></ul>      |

## SERIVCES AND MEMBERSHIPS

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- **Program Committee**, *CVPR 2018 Workshop on Visual Understanding of Humans in Crowd Scene* (VUHCS), 2018
- **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

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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 (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

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- 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 developed multiple Windows Applications and made speeches for the public.

## SKILLS

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

## 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.