

# JIACHEN ZHONG

Website: [julightzhong10.github.io](http://julightzhong10.github.io) ◇ E-mail: [julightzhong10@outlook.com](mailto:julightzhong10@outlook.com)

## EDUCATION

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- **University of California, Los Angeles (UCLA)** *9/2018 - present*  
Master of Science in Computer Science, GPA: 3.90/4.0  
Advisor: Prof. Cho-Jui Hsieh
- **Macao Polytechnic Institute (MPI)** *8/2014 - 6/2018*  
Bachelor of Science in Computing, GPA: 3.64/4.0 (Top 1)  
Advisor: Prof. Rita Tse

## RESEARCH AND PROFESSIONAL EXPERIENCES

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- **Graduate Student Researcher** *4/2019 - 6/2019*  
**Cuneiform Digital Library Initiative at UCLA**  
Los Angeles
  - Developed and maintained error detecting functions of PyOracc which is an open source CDLI ATF file checker. Link: [https://github.com/cdli-gh/pyoracc/tree/error\\_detector](https://github.com/cdli-gh/pyoracc/tree/error_detector)
- **Research Assistant** *6/2016 - 4/2018*  
**UCLA-MPI Joint Research Center in Ubiquitous Computing**  
Macao
  - Did the research on how to utilize Deep CNNs to judge the quality of fashion images.
  - Developed Sounds Collection Device with TES-1352S Sound Level Meter.
- **Development Engineer Internship** *7/2017 - 8/2017*  
**NetEase**  
Beijing
  - Established, tested, and maintained several crawlers to fetch news on the Internet for auto push news systems.
- **UCLA Summer Research Work** *8/2016*  
**Network Research Lab at UCLA Computer Science Department**  
Los Angeles
  - Implemented an Android chat application using Java Remote Method Invoke(RMI)

## SELECTED PROJECTS

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- **Better image generation of GAN with fewer labeled data** *6/2019 - present*
  - Master Thesis: Trying to improve GAN generation quality with partially labeled dataset.
- **Identifying Offensive Language in Social Media** *4/2019 - 6/2019*
  - Tried various machine learning models to detect offensive language and studied the influence of using emojis in this task.
- **Data Augmentation by using GAN** *2/2019 - 3/2019*
  - Attempted to build Generative Adversarial Networks (GAN) to perform data augmentation.
- **Paper Classification on Citation Networks by Using Asymmetry Relation Design** *2/2019 - 3/2019*

- Attempting to utilize the asymmetry relation design in probabilistic graphical models to perform classification on paper topics
- **Probabilistic Database System** 9/2018 - 12/2018
  - Built a Probabilistic Database on MySQL with Lift Inference Rule, Direct Sampling, and Brute Force functions in Python.
- **Analyzing Fashion Trend Using Machine Learning** 9/2017 - 5/2018
  - Bachelor Thesis: Trained CNNs to rate the quality of fashion images with over 1 million newly collected fashion data.

## PUBLICATION

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- **Jiachen Zhong**, Rita Tse, Gustavo Marfia, Giovanni Pau. Fashion Popularity Analysis based on Online Social Network via Deep Learning. *The 11th International Conference on Digital Image Processing (ICDIP)*, 2019.

## RESEARCH AND STUDY INTERESTS

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Machine Learning, Generative Models, GAN

## PROFESSIONAL SKILLS

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- **Programming Languages:** Python, JavaScript & Node.js, Java, SQL, C, NoSQL
- **Software & Tools:** PyTorch, TensorFlow, MySQL, Sklearn, Git, Docker, LaTeX

## MENTORSHIP EXPERIENCES

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- **Student Mentor of MPI-UCLA Summer Research Work** 2017, 2018  
Macao Polytechnic Institute
- **Student Mentor of Freshman in Computing Programme at MPI** 2017, 2018  
Macao Polytechnic Institute

## HONORS, AWARDS AND CERTIFICATES

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- **IET Chartered Engineer (CEng)** 2018
- **Henry Fok Foundation Scholarship** 2018
- **The IET Prize 2018** 2018
- **Nam Kwong Education Scholarship** 2017
- **Second Place in International ICT Innovative Services Awards** 11/2016
- **Bronze Prize in China Chuang Qing Chun College Students Entrepreneurship Competition** 5/2016
- **Bank of China Scholarship** 2016
- **Macao Foundation Scholarship** 2014 - 2018

## MEMBERSHIP

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- **The Institution of Engineering and Technology (IET)** 2014 - present