

# Cheng Perng Phoo

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## EDUCATION

### Cornell University, Ithaca, New York, USA

- Ph.D. Student in Computer Science Aug 2017 – Present
  - Advisor: Professor Bharath Hariharan
  - Focus: Building visual recognition systems with less human supervision
  - Minor: Applied Mathematics
  - Cumulative GPA: 3.88 / 4.00

### University of Michigan, Ann Arbor, Michigan, USA

- B.S. in Computer Science and Pure Mathematics Sep 2014 – May 2017
  - Cumulative GPA: 3.78 / 4.00

### INTI International University, Nilai, Negeri Sembilan, Malaysia

- Actuarial Science Program (American University Program) Jan 2013 – Jul 2014
  - Cumulative GPA: 3.97 / 4.00

## RESEARCH EXPERIENCE

### Cornell Graphics and Vision Group, Cornell University

- Graduate Research Assistant Aug 2018 – Present
  - Advisor: Professor Bharath Hariharan
  - Focus: Building visual recognition systems with less human supervision
  - Relevant Areas: Deep Learning, Few-shot Learning, Semi-supervised Learning, Self-supervised Learning, Unsupervised Learning

### Machine Learning for Data-Driven Decisions (MLD<sup>3</sup>), University of Michigan, Ann Arbor

- Undergraduate Research Assistant May 2016 – May 2017
  - Advisor: Professor Jenna Wiens
  - Project: Heard Sound Classification, Predicting Concussions Among College Athletes

## PREPRINT

- **Cheng Perng Phoo**, Bharath Hariharan. “Self-training for Few-shot Transfer across Extreme Task Differences”. Under Review. ArXiv: <https://arxiv.org/abs/2010.07734>

## WORKSHOP PUBLICATION (\* EQUAL CONTRIBUTIONS)

- Claire Liang\*, **Cheng Perng Phoo**\*, Laasya Renganathan, Yingying Yu, Bharath Hariharan, and Hadas Kress-Gazit “Perceiving Signs for Navigation Guidance in Spaces Designed for Humans”. In Closing the Academia to Real-World Gap in Service Robotics. Proceedings of the Robotics Science and Systems Conference (RSS). Virtual, July 2020.

## CONFERENCE PUBLICATION

- José Javier González Ortiz, **Cheng Perng Phoo**, and Jenna Wiens. “Heart Sound Classification based on Temporal Alignment Techniques”. In 2016 Computing in Cardiology Conference (CinC), pp. 589-592. IEEE, 2016.

## TEACHING EXPERIENCE

### Department of Computer Science, Cornell University

- Graduate Teaching Assistant for CS4780/5780 Jan 2018 – May 2018
  - Course name: Machine Learning for Intelligent Systems
  - Instructor: Professor Kilian Weinberger, Chris De Sa
  - Awarded Outstanding Teaching Assistant Award
- Graduate Teaching Assistant for CS4786/5786 Aug 2017 – Dec 2017
  - Course name: Machine Learning for Data Science
  - Instructors: Professor Karthik Sridharan

### Department of Computer Science and Engineering, University of Michigan, Ann Arbor

- Undergraduate Instructional Aide for EECS445 Jan 2017 – May 2017
  - Course name: Introduction to Machine Learning
  - Instructor: Professor Jenna Wiens
- Undergraduate Instructional Aide for EECS203 Sep 2015 – Dec 2016
  - Course name: Discrete Mathematics

### INTI International University

- Peer Assisted Study Session Leader for Calculus 1 Feb 2014 – May 2014
  
- AWARDS**
  - Outstanding Teaching Assistant Award May 2018  
For my work on Cornell CS4780/5780 (Spring 2018)
  
- DEPARTMENTAL SERVICES**
  - Department of Computer Science, Cornell University**
    - Mentor Czar Jun 2018 – Present
      - Managed the department’s mentoring program
      - Assigned senior PhD students as mentors for incoming first year PhD students
      - Organized social events for mentors and mentees
    - Visit Day Czar Aug 2017 – Apr 2018
      - Managed volunteers to ensure smooth running of the department’s PhD Visit Day
  
- OTHER WORK EXPERIENCE**
  - eCornell: Cornell Online Education Programs, Ithaca, New York, USA**
    - Data Science Content Specialist Jun 2018 – Present
      - Worked closely with Professor Kilian Weinberger to develop contents for the Machine Learning certificate CIS53x
  
- TECHNICAL SKILLS**
  - Programming Languages: Python, MATLAB, C/C++
  - Machine Learning Frameworks: PyTorch, Tensorflow, scikit-learn, NumPy, SciPy, Pandas
  - Others: Bash, L<sup>A</sup>T<sub>E</sub>X, Linux
  
- LANGUAGES**
  - Mandarin: Native language
  - English, Malay: Fluent (speaking, reading, writing)

*[CV compiled on 2020-10-19]*