NONTAWAT CHAROENPHAKDEE

Email: nontawat@ms.k.u-tokyo.ac.jp **Website:** https://nolfwin.github.io

Education

Ph.D. student in computer science **Sep. 2018-Present**
The University of Tokyo **Tokyo, Japan**
Sugiyama-Sato-Honda Laboratory (Machine learning)
Laboratory website: http://www.ms.k.u-tokyo.ac.jp/

Master of Information Science and Technology **Sep. 2016 – Sep. 2018**
The University of Tokyo **Tokyo, Japan**
Sugiyama-Sato-Honda Laboratory (Machine learning)
GPAX: 4.00/4.00

Bachelor of Computer Engineering **Jun. 2011 – Jun. 2015**
Chulalongkorn University **Bangkok, Thailand**
GPAX: 3.80/4.00

Research Interests: Machine learning

Loss function, Learning with reject option, Weakly-supervised learning, Domain adaptation

Job Experiences

1. **Research assistant** **Jan 2019 – Present**
   RIKEN Center for Advanced Intelligence Project **Tokyo, Japan**
   Researching on weakly-supervised learning.
2. **Part-time software developer** **Jun 2016 – Dec 2018**
   HENNGE, Inc. **Tokyo, Japan**
   Developed a system to assist the internship screening process using machine learning.
   Optimized the memory/time complexity for searching in mail archiving system.
3. **Software developer** **Feb 2015- Feb 2016**
   CODIUM Company Limited **Bangkok, Thailand**
   Developed CRM web application using Django web framework.

Internship Experiences

1. **Research intern** **Aug-Sep 2019**
   Preferred Networks, Inc. **Tokyo, Japan**
   Research on the task related to speech signal processing.
   Blog: https://tech.preferred.jp/en/blog/open-set-few-shot-speaker-identification/
2. **Intern in the department of computer science** **Feb-Mar 2019**
   Faculty of science, Chulalongkorn University **Bangkok, Thailand**
   Researched on learning from relevant keywords and unlabeled documents.
   One publication in EMNLP-IJCNLP2019.
3. **Research and development intern** **Jan 2015**
   R&D department, NTT Data Corporation **Tokyo, Japan**
   Developed and tested a telepresence iOS application using telerobotics technology.
4. **iOS developer** **Jul-Sep 2014**
   CODIUM Company Limited **Bangkok, Thailand**
   Developed an iPad enterprise application for the Japanese car maintenance company.

5. **Research student** **Mar-May 2014**
Japan Advanced Institute of Science and Technology **Ishikawa, Japan**
Researched on f0 estimation of reverberant speech under Professor Masashi Unoki.

Awards and honors

NeurIPS 2019 Travel Award: A financial support for attending 33rd Conference on Neural Information Processing System in Vancouver, Canada: 7 nights of hotel stay.

AIP Challenge Program: A research funding for young researchers provided by Japan Science and Technology Agency (JST): 1 million JPY.

ICML 2019 Travel Award: A financial support for attending 36th International Conference on Machine Learning in Long beach, California, United States: 1700 USD.

Monbukagakusho (MEXT) scholarship: A scholarship granted by Japanese government for studying master's and doctor's degree in Japan.

Representative student of IST: Only one student selected from all students in the faculty of information science and technology (IST), the University of Tokyo in September 2018. The decision was based on the academic achievement and master's thesis.

First class honors: Bachelor of Engineering, Chulalongkorn University.

Activities

Journal Reviewer: Neural Networks, Machine Learning

Conference Reviewer: ICLR 2020, ICML 2020

Languages

Thai: Native **English:** TOEFL (Mar 2016) 105/120 **Japanese:** JLPT N2 (Dec 2016)

Publications

Cui, Z., **Charoenphakdee, N.**, Sato, I., and Sugiyama, M.
Classification from Triplet Comparison Data
Neural Computation, 2020.

Ni, C., **Charoenphakdee, N.**, Honda, J., Sugiyama, M.
On the Calibration of Multiclass Classification with Rejection
In **NeurIPS 2019**, Vancouver, Canada, Dec 8-14, 2019.

Charoenphakdee, N., Lee, J., Jin, Y., Wanvarie, D., Sugiyama, M.
Learning Only from Relevant Keywords and Unlabeled Documents
In **EMNLP-IJCNLP 2019**, Hong Kong, Nov 3-7, 2019.

Charoenphakdee, N., Lee, J., Sugiyama, M.
On Symmetric Losses for Learning from Corrupted Labels
In **ICML 2019**, Long Beach, California, USA, Jun 9-15, 2019.

Wu, Y., **Charoenphakdee, N.**, Bao, H., Tangkaratt, V., Sugiyama, M.
Imitation Learning from Imperfect Demonstration
In **ICML 2019**, Long Beach, California, USA, Jun 9-15, 2019.

Charoenphakdee, N., Sugiyama, M.
Positive-Unlabeled Classification under Class Prior Shift and Asymmetric Error
In **SDM 2019**, Calgary, Alberta, Canada, May 2-4, 2019.

Kuroki, S., **Charoenphakdee, N.**, Bao, H., Honda, J., Sato, I. & Sugiyama, M.
Unsupervised Domain Adaptation Based on Source-guided Discrepancy
In **AAAI 2019**, Honolulu, Hawaii, USA, Jan 27-Feb 1, 2019.

Preprints

Lee, J., **Charoenphakdee, N.**, Kuroki, S., Sugiyama, M.
Domain Discrepancy Measure Using Complex Models in Unsupervised Domain Adaptation

Tsuchiya, T., **Charoenphakdee, N.**, Sato, I., Sugiyama, M.
Semi-Supervised Ordinal Regression Based on Empirical Risk Minimization

Zhang, Y., **Charoenphakdee, N.**, and Sugiyama, M.
Learning from Indirect Observations

Imamura, H., **Charoenphakdee, N.**, Futami, F, Sato, I., Honda, J., and Sugiyama, M.
Time-varying Gaussian Process Bandit Optimization with Non-constant Evaluation Time

Zhang, Y., **Charoenphakdee, N.**, Wu, Z., and Sugiyama, M.
Learning from Aggregate Observations