NONTAWAT **CHAROENPHAKDEE**

Ph.D. student, Department of Computer Science, The University of Tokyo

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Education

Ph.D. student in computer science, The University of Tokyo   **Sep 2018 - Present**

Supervisor	Masashi Sugiyama
Laboratory website	http://www.ms.k.u-tokyo.ac.jp/
GPAX	3.00 / 3.00

Master of Information Science and Technology, The University of Tokyo   **Sep 2016 - Sep 2018**

Supervisor	Masashi Sugiyama
GPAX	3.00 / 3.00

Bachelor of Computer Engineering, Chulalongkorn University   **Jun 2011 - Jun 2015**

GPAX	3.80 / 4.00 (First class honors)

Research interests

Loss function, Anomaly detection, Uncertainty estimation, Learning with reject option, Weakly-supervised learning, Domain adaptation

Job Experiences

Research assistant, RIKEN Center for Advanced Intelligence Project, (Tokyo, Japan)   **Jan 2019 - Now**
- Researching on weakly-supervised learning.

Part-time software developer, HENNGE, (Tokyo, Japan)   **Jun 2016 - Dec 2018**
- Optimized the memory/time complexity for searching in mail archiving system..

Software Developer, CODIUM Company Limited, (Bangkok, Thailand)   **Feb 2015 - Feb 2016**
- Developed CRM web application using Django web framework.

Internship Experiences

Research intern, Preferred Networks, (Tokyo, Japan)   **Aug 2019 - Sep 2019**
- Research on the task related to speech signal processing.
- Research blog: https://tech.preferred.jp/en/blog/open-set-few-shot-speaker-identification/

Researh intern, Computer Science, Chulalongkorn University, (Bangkok, Thailand)   **Feb 2019 - March 2019**
- Researched on learning from relevant keywords and unlabeled documents.
- Resulted in one publication in EMNLP-IJCNLP 2019.

Research intern, R&D department of NTT Data Corporation, (Tokyo, Japan)   **Jan 2015 - Feb 2015**
- Developed and tested a telepresence iOS application using telerobotics technology.

iOS developer, CODIUM Company Limited, (Bangkok, Thailand)   **Jul 2014 - Sep 2014**
- Developed an iPad enterprise application for the Japanese car maintenance company.

Research student, JAIST, (Ishikawa, Japan)   **Mar 2014 - May 2014**
- Researched on fundamental frequency estimation of reverberant speech under Professor Masashi Unoki.

Professional activities

Journal reviewer:	Machine Learning, Neural Networks
Conference reviewer:	ICLR 2020, ICML 2020, ACML 2020, NeurIPS 2020

Publications

📔 Journal Articles

Zhenghang Cui, **Nontawat Charoenphakdee**, Issei Sato, and Masashi Sugiyama. "Classification from triplet comparison data". In: *Neural Computation* (2020).

👥 Conference Proceedings

Nontawat Charoenphakdee, Jongyeong Lee, Yiping Jin, Dittaya Wanvarie, and Masashi Sugiyama. "Learning Only from Relevant Keywords and Unlabeled Documents". In: *EMNLP-IJCNLP*. 2019.

Nontawat Charoenphakdee, Jongyeong Lee, and Masashi Sugiyama. "On symmetric losses for learning from corrupted labels". In: *ICML*. 2019.

Nontawat Charoenphakdee and Masashi Sugiyama. "Positive-Unlabeled Classification under Class Prior Shift and Asymmetric Error". In: *SDM*. 2019.

Seiichi Kuroki, **Nontawat Charoenphakdee**, Han Bao, Junya Honda, Issei Sato, and Masashi Sugiyama. "Unsupervised domain adaptation based on source-guided discrepancy". In: *AAAI*. 2019.

Chenri Ni, **Nontawat Charoenphakdee**, Junya Honda, and Masashi Sugiyama. "On the Calibration of Multiclass Classification with Rejection". In: *NeurIPS*. 2019.

Yueh-Hua Wu, **Nontawat Charoenphakdee**, Han Bao, Voot Tangkaratt, and Masashi Sugiyama. "Imitation learning from imperfect demonstration". In: *ICML*. 2019.

📄 Preprints

Hideaki Imamura, **Nontawat Charoenphakdee**, Futoshi Futami, Issei Sato, Junya Honda, and Masashi Sugiyama. *Time-varying Gaussian Process Bandit Optimization with Non-constant Evaluation Time*. arXiv preprint arXiv:2003.04691. 2020.

Yivan Zhang, **Nontawat Charoenphakdee**, Zhenguo Wu, and Masashi Sugiyama. *Learning from Aggregate Observations*. arXiv preprint arXiv:2004.06316. 2020.

Jongyeong Lee, **Nontawat Charoenphakdee**, Seiichi Kuroki, and Masashi Sugiyama. *Domain Discrepancy Measure for Complex Models in Unsupervised Domain Adaptation*. arXiv preprint arXiv:1901.10654. 2019.

Taira Tsuchiya, **Nontawat Charoenphakdee**, Issei Sato, and Masashi Sugiyama. *Semi-Supervised Ordinal Regression Based on Empirical Risk Minimization*. arXiv preprint arXiv:1901.11351. 2019.

Yivan Zhang, **Nontawat Charoenphakdee**, and Masashi Sugiyama. *Learning from Indirect Observations*. arXiv preprint arXiv:1910.04394. 2019.

Awards and Honors

- **Winner of Thailand NLP Hackathon 2/2020**: Received the first place award from Thailand online hackathon 2/2020 for the natural language processing task. Teamed up with Noppayut Sriwatanasakdi and Nuttapong Chairatanakul. Organized by the Artificial Intelligence Association of Thailand. Prize: 20,000 THB.
- **NeurIPS 2019 Travel Award**: Awarded financial support for attending 33rd Conference on Neural Information Processing System in Vancouver, Canada: 7 nights of a hotel stay.
- **AIP Challenge Program**: Awarded a research funding for young researchers provided by Japan Science and Technology Agency (JST): 1,000,000 JPY.
- **ICML 2019 Travel Award**: Awarded financial support for attending the 36th International Conference on Machine Learning in Long beach, California, United States: 1,700 USD.
- **Monbukagakusho (MEXT) Scholarship**: Received scholarship granted by the Japanese government for studying master's and doctor's degree in Japan.
- **Representative Student of IST**: Selected as an only one student from all students in the faculty of information science and technology (IST), the University of Tokyo in September 2018. The decision was based on academic achievements and the master's thesis.
- **First Class Honors**: Bachelor of Engineering, Chulalongkorn University.

Languages

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