Futoshi Futami

Researcher at NTT Communication Science Laboratories   https://futoshi-futami.github.io/
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Education

Ph.D. Science, Graduate School of Frontier Sciences, the University of Tokyo   Sep.2016 – Mar.2020
Adviser: Masashi Sugiyama
Thesis title: Robust and Computationally-Efficient Approximate Bayesian Inference

M.S. Physics, Graduate school of Science, the University of Tokyo   Apr.2013 – Mar.2015
Adviser: Seiji Miyashita
Thesis title: Static and dynamical properties of magnetic order in small world networks

B.A. Physics, the University of Tokyo   Apr.2009 – Mar.2013

Employment

Researcher   Apr. 2020 -
NTT Communication Science Laboratories

Research Internship   June. 2019 - Sep. 2019
Google Brain at Mountain View

Research Internship   Sep. 2018 - Dec. 2018
Microsoft Research Asia

Research Assistant   Apr. 2017 – Mar. 2020
RIKEN Center for Advanced Intelligence Project

Staff in Planning division   Apr.2015 – Dec.2016
Financial Services Agency, Japanese Government

Awards & Funding

1. Dean's Award for Outstanding Achievement Doctoral Course Graduate School of Frontier Sciences   2020
2. ACT-X: A research funding for excellent young researchers sponsored by Japan Science and Technology Agnecy (42000 USD)   2019
3. IEICE TC-IBISML Research Award, IEICE, Information-Based Induction Sciences and Machine Learning (IBISML) Technical Group   2018
4. Google PhD Fellowship (10000USD)   2018

5. AIP Prism Program : A research funding for excellent young researchers sponsored by Japan Science and Technology Agnecy (23000 USD) — 2018

6. TOYOTA and DWANGO scholarship 2018 (12000 USD) — 2018

7. TOYOTA and DWANGO scholarship 2017 (12000 USD) — 2017

8. AIP Challenge Program : A research funding for excellent young researchers sponsored by JST (10000 USD) — 2017

9. NIPS travel award (1000 USD) — 2017

10. Workshop Travel award, Advances in Approximate Bayesian Inference (AABI) NIPS2017 (500 USD) — 2017

11. Selected as a contributed talk at NIPS AABI workshop. — 2017

Publications

Conference paper

1. **F. Futami,** I. Sato, & M. Sugiyama. Accelerating the diffusion-based ensemble sampling by non-reversible dynamics. International Conference on Machine learning, 2020. (ICML 2020)

2. **F. Futami,** Z. Cui, I. Sato, & M. Sugiyama. Bayesian posterior approximation via greedy particle optimization, Thirty-Third AAAI Conference on Artificial Intelligence. (AAAI-19)

3. **F. Futami,** I. Sato, & M. Sugiyama. Variational Inference based on Robust Divergences. In Artificial Intelligence and Statistics, 2018. (AISTATS 2018)

4. **F. Futami,** I. Sato, & M. Sugiyama. Expectation Propagation for t-exponential family using q-Algebra. In Neural Information Processing Systems, 2017. (Neurips 2017)

Workshops/Technical Reports

1. **F. Futami**, I. Sato, & M. Sugiyama — Dec. 25-26, 2017
   Expectation Propagation for t-exponential family using q-Algebra
   Presented at ERATO Winter Festa Episode 3, Tokyo, Japan

2. **F. Futami**, I. Sato, & M. Sugiyama — Dec. 8, 2017
   Variational Inference based on Robust Divergences
   Advances in Approximate Bayesian Inference, NIPS 2017 Workshop

3. **F. Futami**, I. Sato, & M. Sugiyama — Jun. 23, 2017
   Expectation Propagation for t-exponential family using q-Algebra
   IEICE Technical Report, IBISML, Okinawa

Unpublished paper

1. H. Imamura, N. Charoenphakdee, **F. Futami**, I. Sato, J. Honda, & M. Sugiyama. Time-varying Gaussian Process Bandit Optimization with Non-constant Evaluation Time (https://arxiv.org/abs/2003.04691)

Talks

1. Invited talk at NTT communication science laboratories, Kyoto — Apr. 5, 2019

2. AAAI-19, spotlight talk, search & constrained optimization, Hawaii — Jan. 31, 2019

3. Second International Workshop on Symbolic-Neural Learning, Nagoya	July. 5, 2018
4. Toshiba R&D Center, Media AI Department, Kanagawa.	Jan. 12, 2018
5. Graph-mining & WEB & AI seminar, National Institute of Informatics, Tokyo	Jan. 11, 2018
6. Advances in Approximate Bayesian Inference, NIPS 2017 Workshop	Dec. 8, 2017
7. The 20th Information-Based Induction Science Workshop (IBIS2017), Tokyo.	Nov. 8, 2017

Teaching

1. Invited lecture at RIKEN, Advanced Intelligence Project Basics of machine learning	2017, 2018
2. Teaching assistant, the University of Tokyo Advanced course of statistical physics	2013

Professional Service

Conference reviewing

1. International Conference on Machine Learning	2020
2. Neural Information Processing Systems	2019
3. International Conference on Machine Learning	2019
4. Neural Information Processing Systems	2018
5. Association for the Advancement of Artificial Intelligence	2018
6. International Conference on Learning Representations	2018
7. Advances on Approximate Bayesian Inference	2018

Journal reviewing

1. Machine Learning	2018-