Futoshi Futami

Researcher at NTT Communication Science Laboratories Kyoto, Japan

https://futoshi-futami.github.io/

Education

Ph.D. Graduate school of Frontier Science, the University of Tokyo Sep.2016 – Mar.2020

Supervisor: 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

Supervisor: 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 Gradua	te School of Frontier Sciences 2020
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- ACT-X: A research funding for excellent young researchers sponsored by Japan Science and Technology Agnecy (42000 USD)
- IEICE TC-IBISML Research Award, IEICE, Information-Based Induction Sciences and Machine
 2018
 Learning (IBISML) Technical Group
- 4. Google PhD Fellowship (10000USD) 2018

5.	AIP Prism Program : A research funding for excellent young researchers sponsored by Japan Science 2018	
	and Technology Agnecy (23000 USD)	
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	2017
	(10000 USD)	
9.	NIPS travel award (1000 USD)	2017
10.	Workshop Travel award, Advances in Approximate Bayesian Inference (AABI) NIPS2017	2017
	(500 USD)	
11.	Selected as a contributed talk at NIPS AABI workshop.	2017

Publications

Conference paper

- F. Futami, I. Sato, & M. Sugiyama. Accelerating the diffusion-based ensemble sampling by nonreversible 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

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			
Tea	ching				
1.	Invited lecture at RIKEN, Advanced Intelligence Project	2017, 2018			
	Basics of machine learning				
2.	Teaching assistant, the University of Tokyo	2013			
	Advanced course of statistical physics				
Professional Service					
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Co	nference reviewing				
Co 1.	International Conference on Machine Learning	2020			
		2020 2019			
1.	International Conference on Machine Learning				
1. 2.	International Conference on Machine Learning Neural Information Processing Systems	2019			
1. 2. 3.	International Conference on Machine Learning Neural Information Processing Systems International Conference on Machine Learning	2019 2019			
1. 2. 3. 4.	International Conference on Machine Learning Neural Information Processing Systems International Conference on Machine Learning Neural Information Processing Systems	2019 2019 2018			
1. 2. 3. 4. 5.	International Conference on Machine Learning Neural Information Processing Systems International Conference on Machine Learning Neural Information Processing Systems Association for the Advancement of Artificial Intelligence	2019 2019 2018 2018			
1. 2. 3. 4. 5. 6. 7.	International Conference on Machine Learning Neural Information Processing Systems International Conference on Machine Learning Neural Information Processing Systems Association for the Advancement of Artificial Intelligence International Conference on Learning Representations	2019 2019 2018 2018 2018			