

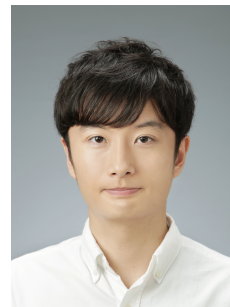
Yu Terada

Postdoctoral Scholar

at **The Theoretical Neuroscience Lab,**
Neurobiology Section,
Division of Biological Sciences,
University of California San Diego,
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Current position

The Theoretical Neuroscience Lab,
Neurobiology Section, Division of Biological Sciences,
University of California San Diego
Special Postdoctoral Researcher
Supervisor: Prof. Johnatan (Yonatan) Aljadeff

USA
March 2022 - Present

Past position

- Main affiliation

Lab for Neural Computation and Adaptation,
RIKEN Center for Brain Science
Research Scientist
Special Postdoctoral Researcher
Supervisor: Dr. Taro Toyozumi

Japan
October 2021 - February 2022
April 2018 - September 2021

Kabashima Lab,
Department of Mathematical and Computing Science, School of Computing,
Tokyo Institute of Technology
Postdoctoral Researcher
Supervisor: Prof. Yoshiyuki Kabashima

Japan
April 2017 - March 2018

- Concurrent affiliation

Kabashima Lab,
Department of Mathematical and Computing Science, School of Computing,
Tokyo Institute of Technology
Visiting Postdoctoral Researcher
Supervisor: Prof. Yoshiyuki Kabashima

Japan
April 2018 - March 2019

Roudi group,
Kavli Institute for Systems Neuroscience, School of Medicine,
Norwegian University of Science and Technology
Visiting Postdoctoral Researcher
Supervisor: Prof. Yasser Roudi

Norway
October 2018 - February 2018, June 2019-July 2019

Education

Department of Applied Analysis and Complex Systems, Graduate School of Informatics,
Kyoto University April 2012 - March 2017
Doctor and Master of Informatics
Supervisor: Prof. Toshio Aoyagi

Department of physics, School of Science,
Tokyo Institute of Technology April 2008 - March 2012
Bachelor of Science
Supervisor: Prof. Hidetoshi Nishimori

Publications

1. **Yu Terada**, Tomoyuki Obuchi, Takuya Isomura, and Yoshiyuki Kabashima,
“Inferring Neuronal Couplings From Spiking Data Using a Systematic Procedure With a Statistical Criterion”,
Neural Computation **32**, 2187-2211 (2020).
2. **Yu Terada** and Yoshiyuki Y. Yamaguchi,
“Linear response theory for coupled phase oscillators with general coupling functions”,
Journal of Physics A: Theoretical and Mathematical **53**, 044001 (2020).
3. **Yu Terada**, Tomoyuki Obuchi, Takuya Isomura, and Yoshiyuki Kabashima,
“Objective and efficient inference for couplings in neuronal networks”,
Advances in Neural Information Processing Systems 31 (NeurIPS 2018).
This article was featured in *Machine Learning 2019* in *Journal of Statistical Mechanics: Theory and Experiment*.
4. **Yu Terada**, Keigo Ito, Toshio Aoyagi, and Yoshiyuki Y. Yamaguchi,
“A role of asymmetry in linear response of globally coupled oscillator systems”,
arXiv:1802.08383 (2018).
5. **Yu Terada**, Keigo Ito, Toshio Aoyagi, and Yoshiyuki Y. Yamaguchi,
“Nonstandard transitions in the Kuramoto model: a role of asymmetry in natural frequency distributions”,
Journal of Statistical Mechanics: Theory and Experiment, 013403 (2017).
This article was selected in *JSTAT Highlights*.
6. **Yu Terada** and Toshio Aoyagi, “Dynamics of two populations of phase oscillators with different frequency distributions”, *Physical Review E* **94**, 012213 (2016).

Grants and awards

- **The Uehara Memorial Foundation:**
Postdoctoral fellowship
Host: Prof. Johnatan (Yonatan) Aljadeff at University of California San Diego
Period: February 2022 - March 2023
Amount: ¥4,500,000
- **Japan Society for the Promotion of Science:**
Grants-in-Aid for Scientific Research (KAKENHI)
Title: “Theoretical research on spatiotemporal information processing in the brain”
Category: Grant-in-Aid for Early-Career Scientists
Period: April 2019 - March 2023
Amount: ¥4,290,000
- **TATEISI Science and Technology Foundation:**
International Visiting
Host: Prof. Yasser Roudi at Norwegian University of Science and Technology
Period: October 2018 - January 2019
Amount: ¥500,000
- **Special Postdoctoral Researcher Program at RIKEN**
Title: “Computational role of deterministic property in neural networks”
Host: Dr. Taro Toyozumi
Period: April 2018 - September 2021
Amount: ¥3,000,000