

Hiromi ISHII

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DeepFlow, Inc.
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Visiting Researcher at Institute of Statistical Mathematics

EDUCATION

Ph.D. in Math University of Tsukuba, Tsukuba-city, Ibaraki prefec-
2016 - 2019 ture, Japan.

Thesis: Bidirectional Interplay between Mathematics
and Computer Science: Safety and Extensibility in
Computer Algebra and Haskell

M.S. in Math University of Tsukuba, Tsukuba-city, Ibaraki prefec-
2016 ture, Japan.

Thesis: On Regularity Properties of Sets of Reals and
Inaccessible Cardinals

B.A., Waseda University, Tokyo, Japan, 2014
summa cum
laude

TEACHING

University of Tsukuba, College of Mathematics

Teaching Assistant Functional Programming Exercise, Spring 2014; Spring
2015; Spring 2016; Spring 2017; Spring 2018

Teaching Assistant Basics of Mathematics, Spring 2016

RESEARCH

University of Tsukuba, College of Mathematics

Research Assistant Spring 2016; Summer 2016; Fall 2016; Winter 2016

SELECT FELLOWSHIPS AND AWARDS

- Research Fellowship for Young Scientists (DC2), Japan Society for the Promotion of Science (2017-2019)
- 14th Meikei Prize (2016)
- Highest Award of Deans' Prize of School of Fundamental Science and Engineering, Waseda University (2014)

REFEREED CONFERENCE PRESENTATIONS

September 2018, *A Purely Functional Computer Algebra System Embedded in Haskell*. Computer Algebra in Scientific Computing 2018, Lille, France.

March 2016, *Freer Monads, More Extensible Effects*. Programming and Programming Language Workshop (PPL) 2016, Okayama-prefecture, Japan.

NON-REFEREED CONFERENCE PRESENTATIONS

November 2017, *Reflection Principle and construction of saturated ideals on $\mathcal{P}_{\omega_1} \lambda$* . Workshop on Iterated Forcing Theory and Cardinal Invariants, Kyoto-prefecture, Japan.

BIBLIOGRAPHY

- [1] Hiromi Ishii, *On regularity properties of set of reals and inaccessible cardinals*, MA thesis, Tsukuba University, 2016.
- [2] Oleg Kiselyov and Hiromi Ishii, *Freer monads, more extensible effects*, Proceedings of the 2015 ACM SIGPLAN Symposium on Haskell, Haskell '15, Vancouver, BC, Canada: ACM, 2015, pp. 94–105, ISBN: 978-1-4503-3808-0, DOI: 10.1145/2804302.2804319.