Masahiro Kanai

Curriculum Vitae

☑ mkanai@broadinstitute.org

mkanai.github.io

mkanai

Education

Harvard University Boston, USA

Bioinformatics and Integrative Genomics PhD Program, Harvard Medical School Aug. 2017-present

Keio University Yokohama, Japan

B.S. in Bioinformatics, Department of Biosciences and Informatics Apr. 2013-Mar. 2017

Research Experience

Massachusetts General Hospital & Broad Institute of MIT and Harvard

Boston, USA

Graduate Student, Analytic and Translational Genetics Unit

Jan. 2018-present

Advisors: Drs. Mark Daly & Hilary Finucane

Research theme: Cross-population analysis of complex human diseases and traits.

Osaka University Graduate School of Medicine

Osaka, Japan

Research Student, Department of Statistical Genetics

Apr. 2017-present

Advisor: Dr. Yukinori Okada

Research themes:

o Genetic analysis of complex human diseases and traits in the Japanese population.

o Efficient visualization of high-dimentional multi-omics data.

RIKEN Center for Integrative Medical Sciences

Yokohama, Japan

Research Assistant, Laboratory for Statistical Analysis

May 2015-Jul. 2019

Advisors: Drs. Yoichiro Kamatani & Yukinori Okada

Research themes:

o Genome-wide association study (GWAS) of ~200,000 individuals in the BioBank Japan Project.

o Interpretation of GWAS polygenic signals using epigenomic data.

o Population genetics analysis of 1,037 Japanese whole-genome sequences.

Keio University Yokohama, Japan

Undergraduate Researcher, Laboratory for Bioinformatics

Apr. 2016-Mar. 2017

Advisor: Dr. Yasubumi Sakakibara

Bachelor thesis: Integrative multi-omics analysis of renal cell carcinoma.

Tokyo Medical and Dental University Tokyo, Japan

Technical Assistant, Department of Human Genetics and Disease Diversity Apr. 2014-Mar. 2016

Advisors: Drs. Yukinori Okada & Toshihiro Tanaka

Research themes:

Empirical estimation of genome-wide significance thresholds based on GWAS simulations.

HLA imputation analysis using the Japanese-specific reference panel.

Certification

The Certification for Bioinformatics Engineers

certificated by the Japanese Society of Bioinformatics

2015

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Awards and Fellowships

Reviewers' Choice Abstract Award The American Society of Human Genetics 2021 Virtual Meeting	USA 2021
Charles J. Epstein Trainee Awards for Excellence in Human Genetics Research Finalist (Predoctoral), The American Society of Human Genetics 2020 Virtual Meeting	USA 2020
Reviewers' Choice Abstract Award The American Society of Human Genetics 2019 Annual Meeting	Houston, USA 2019
Masason Foundation Fellowship Research grant for cross-population analysis of complex human diseases and traits.	Tokyo, Japan 2018-2022+
Nakajima Foundation Fellowship Predoctoral fellowship which covers up to ~\$50,000/year for tuition and stipend.	Tokyo, Japan 2017-2022
The 3rd place, Worldwide Finals Microsoft Imagine Cup 2011 Windows 7 Touch Challenge	New York, USA 2011
The 1st place, National Finals & Worldwide Finalist Microsoft Imagine Cup 2010 Software Design Competition	Japan & Poland 2010

Publications

Presentations

Last updated: November 17, 2021.