

Masahito Yamazaki

Contact

Address: Kavli Institute for the Physics and Mathematics of the Universe (Kavli IPMU),
University of Tokyo, 5-1-5 Kashiwanoha, Chiba 277-8583, Japan

Phone: +81-4-7136-4940 (IPMU general)

Email: masahito.yamazaki@ipmu.jp

Web: <http://member.ipmu.jp/masahito.yamazaki/>

Personal

Born on May 1983, Japanese citizen.

Employment

- 2022–present **Full Professor**
Kavli IPMU, University of Tokyo.
- 2018–2022 **Associate Professor**
Kavli IPMU, University of Tokyo.
- 2013–2018 **Assistant Professor**
Kavli IPMU, University of Tokyo.
(on leave as Visiting Associate Scientist, Sep. 2013– Aug. 2014).
- 2013–2016 **Member**
School of Natural Sciences, Institute for Advanced Study.
- 2010–2013 **Postdoctoral Fellow**
Princeton Center for Theoretical Science, Princeton University.
- 2010 **Postdoctoral Fellow**
Kavli IPMU, University of Tokyo.

Education

- 2006–2010 **University of Tokyo**
Ph.D. in Physics, March 2010.
(Adviser: **Hiroshi Ooguri** and Tsutomu Yanagida).
M.S. in Physics, March 2008.
(Adviser: **Tohru Eguchi**).
- 2008–2010 **California Institute of Technology**, visiting student researcher.
- 2002–2006 **University of Tokyo**, **B.S.** in Physics, March 2006.

Academic Awards and Honors

- 2013 **7th Particle Physics Medal: Young Scientist Award in Theoretical Particle Physics**, Japan Particle and Nuclear Theory Forum.
- 2012 **29th Inoue Research Award for Young Scientists**, Inoue Foundation for Science.
- 2010–2011 **Fellowship for Young Scientists (PD)**, Japan Society for the Promotion of Science.
- 2010 **Research Award (Ph.D.)**, Department of Physics, University of Tokyo.
- 2008–2010 **Fellowship for Young Scientists (DC1)**, Japan Society for the Promotion of Science.
- 2008 **Research Award (M.S.)**, Department of Physics, University of Tokyo.
- 2006–2008 **Fellowship**, Japan Student Services Organization.
- 2004–2008 **Fellowship**, Shinnihon Scholarship Foundation.
- 1996–2002 **Fellowship**, Tokai Junior and Senior High School.

Visiting Appointments

I have visited numerous research institutions in the past, which includes for example:

- 2022 Spring **UC Berkeley**, as a Visiting Scholar.
- 2016 Fall–2017 Spring **Harvard University**, as a Visiting Scholar.
- 2015 Fall **University of Oxford**, as a Visiting Professor.

Conference Organizations (as a Co-Organizer)

- since 2014 Mathematics and String theory seminar at Kavli IPMU.
- 2018-2022 Program committee, "Kavli Asian Winter School on Strings, Particles and Cosmology"
- 2024 two-week school "Modern view on symmetries and quantum anomalies," IHES, France
- 2022 HirosiFest, Caltech and Kavli IPMU
- 2022 two-month program "Integrability in String, Field and Condensed Matter Theory" and associated one-week conference "Talking Integrability: Spins, Fields, and Strings," KITP
- 2021 "Dynamics of SCFTs and Special Functions," Simons Center, Stony Brook
- 2021 "Three Facets of R-Matrices," Mathematisches Forschungsinstitute Oberwolfach, Germany
- 2021 SUSY 2021 (convener for "Formal SUSY Theories"), Shanghai/online
- 2021 "Number Theory, Strings, and Quantum Physics", Kavli IPMU/online
- 2021 "Holomorphic Quantum Field Theories," Kavli IPMU (postponed due to covid-19)
- 2020 "The World of Mathematical Physics," Kavli IPMU
- 2019 "KIAS-YITP workshop," KIAS, Korea
- 2019 "New Trends in Integrable Systems, " Osaka City University
- 2018 "Focus Week on Quantum Gravity and Holography," Kavli IPMU
- 2018 2-week summer school "Supersymmetric localization and exact results", IHES, France
- 2017 IPMU-KIAS-Kyunghee Joint Workshop, KIAS, Korea
- 2017 "Mathematics and Superstring Theory", Kavli IPMU, Japan
- 2016 "Resurgence at Kavli IPMU", Kavli IPMU, Japan.
- 2015 "Master Lectures on Mathematical Physics: Edward Witten", Sanya, China.
- 2015 "International Workshop on Condensed Matter Physics & AdS/CFT", Kavli IPMU, Japan.
- 2015 "String Theory in Greater Tokyo 1 and 2", Kavli IPMU and RIKEN, Japan.
- 2012 High energy theory seminar at Princeton University.
- 2012 "Entanglement in Discrete and Continuous Quantum Systems on entanglement entropy", Princeton Center for Theoretical Science, Princeton, USA.
- 2011 "Exact Methods in Gauge/String Theories", Princeton Center for Theoretical Science, Princeton, USA.

Selected Invited Talks and Conferences

Since 2005, I have given more than **200** scientific presentations on my works, including many invited talks at international conferences at research institutes worldwide. Please see <http://member.ipmu.jp/masahito.yamazaki/talks.shtml> for a complete list. This includes the following invited talks at some major conferences in string theory and mathematical physics:

- 2012, 2018 Strings conferences
- 2021 International Congress on Mathematical Physics
- 2018 String-Math conference
- 2014, 2015 Integrability in Gauge and String Theory

These days I have been invited to as plenary speakers to conferences in phenomenology/cosmology, e.g.

- 2019 International Symposium on Particle Physics, String Theory, and Cosmology (PASCOS)
- 2019 Rencontres de Moriond, EW session
- 2019 International Workshop on New Physics at the Low Energy Scales (NEPLES)

Recent lecture series at schools for students/postdocs include, for example,

- 2021 Lectures on 4d Chern-Simons theory, Nagoya
- 2021 Lectures on swampland conjectures, Kyoto YITP/online
- 2020 Kavli Asian Winter School (on "Integrability and Knots from Chern-Simons Theory" and "Minimalistic Introduction to the Swampland"), Tohoku
- 2019 "Integrability and Perturbative Quantum Field Theory", Hamburg
- 2018 "Complex Chern-Simons Theory", UTokyo, Komaba

Refereeing

Served as a referee for many journals in physics and mathematics, including:

Advances in High Energy Physics, Annales Henri Poincaré, Communications in Mathematical Physics, Communications in Number Theory and Physics, Foundations of Physics, Journal of High Energy Physics, Journal of Physics A, Letters in Mathematical Physics, Nuclear Physics B, Physics Letters B, Physical Review D, Physical Review Letters and SIGMA.