

CURRICULUM VITAE

Ryo SUZUKI

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Contact Information

Position: Research professor
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Personal Information

Age : 41
Sex : Male
Nationality : Japanese

Academic Degrees

Ph.D. thesis title:

“The Spectrum of Classical String Theory and Integrability in the AdS/CFT Correspondence”

Advisor: Professor Tohru Eguchi, conferred on March 24, 2008.

March 2008, Doctor of Science, Department of Physics, University of Tokyo

March 2005, Master of Science, Department of Physics, University of Tokyo

March 2003, Bachelor of Science, Department of Physics, University of Tokyo

Academic Positions

October 2019 - Present,

Research professor at Shing-Tung Yau Center of Southeast University

October 2017 - September 2019,

Postdoc Researcher at Korea Institute For Advanced Study

October 2015 - September 2017,

Postdoc Researcher at ICTP-SAIFR, São Paulo State University

October 2013 - September 2015,

Marie-Curie Intra-European Fellow at Mathematical Institute, University of Oxford

October 2010 - September 2013,

Postdoc Researcher at Institute for Theoretical Physics, Utrecht University

April 2008 - September 2010,

Postdoctoral Fellow at School of Mathematics, Trinity College Dublin

Invited talks

- Institut für Theoretische Physik, Universität Leipzig; Leipzig, Germany, September 2014.
- *Permutations and Gauge-String Duality*; Queen Mary University of London; London, the United Kingdom, July 2014.
- Department of Mathematics, King's College London; London, the United Kingdom, March 2014.
- "Fields, Strings and Geometry" Seminar at Department of Mathematics, University of Surrey; Guildford, the United Kingdom, March 2014.
- Kavli IPMU-FMSP Workshop *Supersymmetry in Physics and Mathematics*, Kavli IPMU; Chiba, Japan, March 2014.
- JSPS/RFBR Collaboration Workshop, *Progress in the synthesis of integrabilities arising from gauge-string duality*; Shiga, Japan, March 2014.
- Institut für Theoretische Physik, Georg-August-Universität Göttingen; Göttingen, Germany, October, 2013.
- Mathematical Institute, University of Oxford; Oxford, the United Kingdom, October, 2013.
- IEU Workshop on *Solving AdS/CFT*, Institute for the Early Universe, Ewha University; Seoul, Republic of Korea, June 2013.
- YIPQS long-term workshop *Gauge/Gravity Duality*, Yukawa Institute for Theoretical Physics; Kyoto, Japan, October 2012.
- Award lecture for Nakamura Seitara Prize at *Japan Physical Society Annual Meeting*, Kwansai Gakuin University; Hyogo, Japan, March 2012.
- *35th Johns Hopkins Workshop*, Eötvös Loránd University; Budapest, Hungary, June 2011.
- Eötvös Loránd University; Budapest, Hungary, April 2010.

- *Applied 2D Sigma Models*, Deutsches Elektronen-Synchrotron; Hamburg, Germany, November 2008.
- Kyoto University; Kyoto, November 2007.

Contributed talks and other presentations

- Online poster presentation at *Strings 2021*, ICTP-SAIFR, June 2021.
- Online seminar, Tokyo Institute of Technology, June 2021.
- Seminar, Tianjin Center for Joint Quantum Studies, Tianjin, China, May 2021.
- Online talk at *Randomness, Integrability and Representation Theory in Quantum Field Theory 2021*, Osaka City University, March 2021.
- Online talk at *Japan Physical Society Annual Meeting*, March 2021.
- Online talk at *NTU-Kyoto 2020*, National Taiwan University and Kyoto University, December 2020.
- Online talk at *Strings and Fields*, Yukawa Institute for Theoretical Physics, November 2020.
- Online talk at *Japan Physical Society Annual Meeting*, September 2020.
- Online seminar, Kyoto University, May 2020.
- Talk at *Southeast-Tsinghua Mini-Workshop on Mathematical Physics*; Shing-Tung Yau Center of Southeast University, Nanjing, China, November 2019.
- Talk at *Non-perturbative Methods for Conformal Theories*; International Institute of Physics, Natal, Brazil, April 2019.
- Talk at *Japan Physical Society Annual Meeting*, Kyushu University; Fukuoka, Japan, March 2019.
- Poster presentation at *Kavli Asian Winter School*; Sogang University, Seoul, Korea, January 2019.
- Poster presentation at *East Asia Joint Workshop on Fields and Strings*; Korea Institute for Advanced Study, Seoul, Korea, November 2018.
- Poster presentation at *Integrability in Gauge and String Theory*; Copenhagen University, Copenhagen, Denmark, August 2018.
- Poster presentation at *Strings*; Okinawa Institute of Science and Technology, Okinawa, Japan, June 2018.
- Poster presentation at *Workshop on higher-point correlation functions and integrable AdS/CFT*; Trinity College Dublin, Dublin, Ireland, April 2018.
- Talk at *Second Mandelstam Workshop*; Durban, South Africa, January 2018.
- Poster presentation at *Integrability in Gauge and String Theory*; Ecole normale supérieure, Paris, France, July 2017.
- Talk at ICTP-SAIFR; São Paulo, Brazil, June 2017.

- Poster presentation at *Progress in Quantum Field Theory and String Theory II*; Osaka City University; Osaka, Japan, March 2017.
- Seminar at Institut de Physique Théorique, Saclay, France, December 2016.
- Poster presentation at *Integrability in Gauge and String Theory*; Humboldt-Universität zu Berlin, Berlin, Germany, August 2016.
- Talk at *Strings and Fields*; Yukawa Institute for Theoretical Physics; Kyoto, Japan, August 2016.
- Talk at ICTP-SAIFR; São Paulo, Brazil, October 2015.
- Poster presentation at *Integrability in Gauge and String Theory*; King's College London; London, United Kingdom, July 2015.
- Talk at *Hidden symmetries and integrability methods in super Yang-Mills theories and their dual string theories*; Centre de Recherches Mathématiques; Montréal, Canada, August 2015.
- Poster presentation at *Integrability in Gauge and String Theory*; King's College London; London, United Kingdom, July 2015.
- Poster presentation at *Strings*; International Centre for Theoretical Sciences; Bangalore, India, June 2015.
- Colloquium talk at Manipal University; Manipal, India, June 2015.
- Poster presentation at *International Workshop on Condensed Matter Physics and AdS/CFT*, Kavli IPMU; Chiba, Japan, May 2015.
- Seminars at Osaka City University, Nagoya University, Tokyo University (Hongo) and Rikkyo University; Japan, May 2015.
- Seminars at National Taiwan University and National Center for Theoretical Sciences; Taiwan, May 2015.
- Poster presentation at *Eurostrings*, University of Cambridge; Cambridge, the United Kingdom, March 2015.
- Poster presentation at *New Trends in Quantum Integrability*, University of Surrey; Guildford, the United Kingdom, August 2014.
- Poster presentation at *Strings*; Princeton, USA, June 2014.
- Seminar at Rikkyo University; Tokyo, Japan, February 2014.
- Seminars at University of Tokyo (Komaba), Tokyo Institute of Technology; Japan, June 2013.
- Seminar at Nagoya University; Nagoya, Japan, October 2012.
- Seminar at Rikkyo University; Tokyo, Japan, September 2012.
- Talk at Institute for the Early Universe, Ewha University; Seoul, Republic of Korea, April 2012.
- Poster presentation at *Progress in Quantum Field Theory and String Theory*, Osaka City University; Osaka, Japan, April 2012.

- Talk at *Japan-Russia Collaborative Workshop*, Osaka City University; Osaka, Japan, March 2012.
- Self-organized Gong-Show at *Integrability in Gauge/String Theories*, Perimeter Institute; Waterloo, Canada, August 2011.
- Seminars at University of Tokyo (Hongo), Shizuoka University, Yukawa Institute for Theoretical Physics; Japan, March 2011.
- Seminar at National Taiwan University; Taipei, Taiwan, February 2011.
- Talk at *17th Irish Quantum Field Theory Meeting*, Trinity College Dublin; Dublin, Ireland, May 2010.
- Seminars at Riken, University of Tokyo (Hongo), Kavli IPMU, Yukawa Institute for Theoretical Physics; Japan, March 2011.
- Poster presentation at *KEK Theory Workshop*; Tsukuba, Japan, March 2010.
- Seminar at Penn State University; Pennsylvania, USA, January 2010.
- Talk at *16th Irish Quantum Field Theory Meeting*, Trinity College Dublin; Dublin, Ireland, May 2009.
- Talk at *Japan Physical Society Annual Meeting*, Rikkyo University; Tokyo, Japan, March 2009.
- Seminar at University of Tokyo (Hongo); Tokyo, March 2009.
- Talk at *Workshop on Integrable Quantum Systems*, Dublin Institute for Advanced Studies; Dublin, Ireland, December 2009.
- Talk at *15th Irish Quantum Field Theory Meeting*, National University of Ireland; Maynooth, Ireland, May 2008.
- Talk at *Japan Physical Society Annual Meeting* in Kinki University; Osaka, Japan March 2008.
- Talk at *Japan Physical Society Annual Meeting* in Tokyo Metropolitan University; Tokyo, Japan, May 2007.
- Poster presentation at *KEK Theory Workshop*; Tsukuba, Japan, March 2007.
- Poster presentation at *International Meeting on Perspectives of Soliton Physics*, University of Tokyo (Hongo); Tokyo, Japan, February 2007.
- Poster presentation at *Fundamental Problems and Applications of Quantum Field Theory*, Yukawa Institute for Theoretical Physics; Kyoto, Japan, December 2006.
- Talk at *String Theory and Quantum Field Theory*, Yukawa Institute for Theoretical Physics; Kyoto, Japan, June 2006.
- Talk at *Japan Physical Society Annual Meeting* in Ehime University; Ehime, Japan, March 2006.
- Poster presentation at *KEK Theory Workshop*; Tsukuba, Japan, March 2006.

Prize and Fellowship

- Sixth Nakamura-Seitaro Prize from *Japan Particle and Nuclear Theory Forum* on the paper: *Hybrid NLIE for the Mirror $AdS_5 \times S^5$* . Awarded in March, 2012. The announcement is found at <https://www2.yukawa.kyoto-u.ac.jp/soryushi.shogakukai/hokoku/11.html> (in Japanese)
- Marie-Curie Intra-European Fellow from *European Commission* for the project: *Testing Gauge String Duality* (acronym TESTINGSD), Grant No 327996, from October 2013 to September 2015. The announcement is found at <https://cordis.europa.eu/project/id/327996>
- Research Fund for International Young Scientists from *National Natural Science Foundation of China* for the project: *Probing new large- N limits of AdS/CFT by finite-group methods*, Grant No 12050410255, from January 2021 to December 2023.

Article peer-reviewing

- Journal of High Energy Physics
- Nuclear Physics B
- Journal of Physics A
- Modern Physics Letters A

Organized seminars and workshops

- SEU Yau Center Theoretical Physics Seminars, September 2021 - January 2022, Southeast University.
- Southeast Summer Seminar Series, July - August 2021, Southeast University.
- Southeast Winter Seminar Series, January - February 2021, Southeast University.
- Mini-workshop on Symmetry and Interactions, November 2021, Southeast University.

Teaching

- August 2021, Lecturer for “AdS/CFT Correspondence and Integrability,” 2nd summer school for string theory, QFT and quantum information, Southeast University.
- October 2004 - February 2005, Teaching Assistant for “Exercises in Physics II, Classical and Quantum Mechanics,” Tokyo University.
- October 2003 - February 2004, Teaching Assistant for “Exercises in Physics II, Classical and Quantum Mechanics,” Tokyo University.

Pedagogical Material

- Lectures on AdS/CFT and integrability in the 2nd Summer School on String theory and Holography (2021)
<https://suzuki-r.github.io/Resources/lec-note-summer.pdf>
- I took lecture notes on superstring theory by Nathan Berkovits at ICTP-SAIFR in 2016. A preliminary version is available at
<https://suzuki-r.github.io/research.htm>