

Gary Shiu

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Education

Ph.D., Physics	Cornell University	1998
B.S. (First Class Honors), Physics	Chinese University of Hong Kong	1993

Academic Positions

Professor of Physics	University of Wisconsin-Madison	2010-
Chair Professor of Physics	Hong Kong U. of Science & Technology	2012-2014
Senior Fellow	Hong Kong Institute for Advanced Study	2012-2017
Founding Director	Center for Fundamental Physics, HKUST	2013-2017
Associate Professor of Physics	University of Wisconsin-Madison	2006-2010
Assistant Professor of Physics	University of Wisconsin-Madison	2002-2006
Senior Research Associate	University of Pennsylvania	2000-2002
Postdoctoral Member	C.N. Yang Institute for Theoretical Physics	1998-2000

Selected Visiting Appointments

Visiting Senior Scientist, Kavli Institute for the Physics & Mathematics of the Universe, 2020-
Johannes Diderik van der Waals Chair, University of Amsterdam, 2012
Member, Institute for Advanced Study, Princeton, Spring 2009
Visiting Professor, Stanford University, Fall 2008
Scientific Associate, CERN, 2008

Selected Awards and Honors

Kellett Mid-Career Award, University of Wisconsin	2016
Fellow, American Association for the Advancement of Science	2015
Johannes Diderik van der Waals Chair, University of Amsterdam	2012
Fellow, Institute of Physics, UK	2012
University of Wisconsin Chancellor's Distinguished Teaching Award	2012
Fellow, American Physical Society	2011
Ambrose Monell Foundation Fellow, Institute for Advanced Study	2009
John Simon Guggenheim Fellow	2008
Vilas Associate Award, University of Wisconsin	2008
Kavli Frontiers Fellow, National Academy of Sciences	2006
Cottrell Scholar Award	2005
NSF Career Award	2004
Research Innovation Award from Research Corporation	2003

Selected Recent Professional Services

- Initiated and Organized “Physics \cap ML” (<http://www.physicsmeetsml.org>), an online seminar series at the interface of theoretical physics and machine learning, 2020 –
- Organizer, Online Seminar Series on String Phenomenology, September 2021 –
- Program Committee, Division of Particles and Fields, American Physical Society, 2020-2023.

- Selection Committee, APS Sakurai Dissertation Award in Theoretical Particle Physics, 2020-2022 (Vice Chair in 2021, Chair in 2022).
- Cluster Advisory Committee, Office of the Provost, University of Wisconsin-Madison, 2019-
- Member of the Editorial Board: Science China, 2018-, Chinese Physics C, 2018-, Advances in Theoretical and Mathematical Physics (ATMP), 2022-, International Journal of Modern Physics A, 2023-, Modern Physics Letters A, 2023-
- Inaugural Chair, Gordon Research Conference on String Theory and Cosmology, 2015.
- “Mathematical Physics” Cluster Coordinator, Cluster Hiring Initiative, UW-Madison, 2011 –
- Executive Member of the String Vacuum Project, 2009 –
- Review Panels for NSF, DOE and various funding agencies worldwide (multiple years).
- Organizer of numerous international conferences, workshops, & thematic programs. Recent ones include: Thematic Program on [“The Landscape vs. the Swampland”](#), Erwin Schrodinger Institute (2024); Institute for Fundamental Physics of the Universe Focus Week [“Interpretable and higher-order statistics for late-time cosmology”](#), Trieste (2022); Kavli Institute for Theoretical Physics Program “The String Swampland & Quantum Gravity Constraints on Effective Theories”, Santa Barbara (2020); [Microsoft Workshop on “Physics \$\cap\$ ML”](#), Redmond (2019); 10-th International String Phenomenology Conference, Madison (2011).
- Served on numerous international advisory or program committees of international conferences. Recent ones include the International String Phenomenology Conference (multiple years, from 2004 on); Strings Conference (2016); International Conference on Supersymmetry and Unification of Fundamental Interactions (2021); [Hammers & Nails](#), Machine Learning Meets Astro & Particle Physics (2022).
- Convener for ICHEP (2012), SUSY (2003, 2012, 2015, 2021), PASCOS (2013, 2016).

Publications

Author of over 160 refereed journal articles, with over 15,000 citation count (currently at a rate of ~ 1000 per year), h-index ~ 65 . Six most cited papers were each cited more than 500 times.

Google Scholar: https://scholar.google.com/citations?user=7_B0r5MAAAAJ&hl=en

INSPIRE database: <http://inspirehep.net/author/profile/G.Shiu.1>

Talks

Delivered over 400 talks at both a general and a technical level worldwide (in 28 countries so far). *Named lectures* include the BEL Lectures, Nico van Kampen Colloquium, Zi-Ping Distinguished Lectures in Theoretical Physics, Johannes Diderik van der Waals Lectures, Colloquium Ehrenfestii, and Steve Goldman Lectures in Mathematical Physics.

Education and Outreach

- Mentored 12 PhDs, 32 postdocs: 25 of them now hold faculty positions worldwide.
- Chancellor’s Distinguished Teaching Award (highest teaching honor at UW-Madison), 2012.
- Designed 5 new courses at UW: String Theory (2003), SUSY (2008), Cosmology (2018), String Theory & Supersymmetry (2023), Machine Learning in Physics (2024).
- Opt-ed articles for newspapers: South China Morning Post, Hong Kong Economic Journal.
- Research or interviews featured in media worldwide including Scientific American, Science Magazine, Astronomy Magazine, Quanta Magazine, Der Spiegel, Die Welt, Telepolis, Cosmos Magazine, New Scientist, Physics World, Wisconsin State Journal, Wisconsin Public TV, Mingpao, Singtao Daily, South China Morning Post, Radio Television Hong Kong.