Rahul Pandharipande

Curriculum Vitae

Educational History

A.B.	Mathematics,	Princeton University,	1990,	*summa cum laude*
Ph.D.	Mathematics,	Harvard University,	1994	

Professional History

1994-96	L. E. Dickson Instructor,	University of Chicago
1996-97	Fellow,	Institut Mittag-Leffler (Stockholm)
1997-98	Assistant Professor,	University of Chicago
1998-00	Associate Professor,	California Institute of Technology
2001-02	Professor,	California Institute of Technology
2001-02	Visiting Professor,	Princeton University
2002-11	Professor,	Princeton University
2010-11	Visiting Professor,	IST Lisbon
2011-	Professor,	ETH Zürich
2019-	Director,	ITS-ETH Zürich

Honors

Research Prize of the Alexander von Humboldt Foundation 2023
Honorary Doctor of Science 2022, Univ. of Illinois Urbana-Champaign
Academia Europaea 2020
Invited speaker [plenary] ICM 2018 (Rio de Janeiro)
ERC Advanced Grants 2013-2018 & 2018-2023
Einstein visiting fellow (Berlin) 2015-2019
Infosys Prize for Mathematics 2013
Clay Research Prize 2013
Compositio Prize 2010
Gulbenkian Foundation Fellowship (Lisbon), 2010-2011
Invited speaker [section] ICM 2002 (Beijing)
David and Lucile Packard Foundation Fellowship, 2000-2005
A. P. Sloan Foundation Research Fellowship, 1999-2003

Graduate students

T. Graber, Ph.D. 1998   (Professor, Caltech)
D. Maulik, Ph.D. 2007   (Professor, MIT)
B. Bakker, Ph.D. 2010   (Associate Prof., Univ. of Illinois Chicago)
V. Shende, Ph.D. 2011   (Associate Prof., UC Berkeley)
I. Setayesh, Ph.D. 2011   (Soundhound)
Y. Cooper, Ph.D. 2013   (Consultant)
A. Pixton, Ph.D. 2013   (Assistant Prof., Univ. of Michigan)
G. Oberdieck, Ph.D. 2015 (Associate Prof., KTH Stockholm)
F. Janda, Ph.D. 2015   (Assistant Prof., Univ. of Illinois U-C)
C. Schiessl, Ph.D. 2017   (Physician)
J. Shen, Ph.D. 2018   (Assistant Prof., Yale)
I. Barros, Ph.D. 2018   (Assistant Prof., Antwerp)
J. Schmitt, Ph.D. 2019   (SwissMap post-doc, ETHZ)
T. Bülles, Ph.D. 2022   (Taussky-Todd Instructor, Caltech)
Y. Bae, Ph.D. 2023   (SNF post-doc, Utrecht)
M. Moreira, Ph.D. 2023   (Moore Instructor, MIT)

Current: A. Cela, A. Iribar-Lopez

Post-docs associated to my research group

Spring 2024: S. Canning, A. Giacchetto, F. Rezaee, J. Schmitt, F. You

Past: G. Bérczi (Aarhus), A. Bojko (Academia Sinica Taipei),
P. Bousseau (Georgia and CNRS), A. Buryak (HSE Moscow),
E. Clader (San Francisco SU), H. Fan (Geneva), J. Fresan (Jussieu),
J. Guéré (Grenoble), D. Johnson (BYU), H. Lho (CNU Korea),
W. Lim (Utrecht), S. Molcho (Aarhus), A. Morrison,
A. Oblomkov (UMass Amherst), D. Petersen (Stockholm),
M. Polito (Google), U. Riess, E. Scheidegger (Beijing University),
I. Schwarz (KPMG), J. Solomon (Hebrew Univ. Jerusalem),
K. Slavov (ETHZ), S. Stark (Cambridge),
R. Tessler (Weizmann Institute), L. Wu (SUST Shenzhen),
M. Yakerson (Oxford and CNRS), Q. Yin (Beijing University),
J. van Zelm (Scandio)

Journals

Editorial board, *Portugaliae Mathematica* (2010-)
Editorial board, *Algebraic Geometry* (2013-)
Editorial board, *Peking Mathematical Journal* (2018-)
Editorial board, *Inventiones Mathematicae* (2012-18)
Editorial board, *Journal of the Math Society of Japan* (2013-18)

Service

SwissMAP group leader for GTP (2014-)
Advisory board, *Forchungsinstitut für Mathematik*, ETHZ (2013-)
Advisory board, *Institute for Theoretical Studies*, ETHZ (2013-2019)
Abel prize committee (2014-16)
EMS prize committee (7th ECM, Berlin 2016)
Hopf prize committee (2015-17)
Fields medal committee (ICM 2022)

Bibliography

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(2) R. Pandharipande, *A compactification over $\overline{M}_g$ of the universal moduli space of slope-semistable vector bundles*, JAMS **9** (1996), 425–471.

(3) R. Pandharipande, *The symmetric function $H^0(\overline{M}_{0,n}, L_1^{x_1} \otimes \cdots \otimes L_n^{x_n})$*, J. Alg. Geom. **6** (1997), 721–731.

(4) R. Pandharipande, *The canonical class of $\overline{M}_{0,n}(\mathbb{P}^r, d)$ and enumerative geometry*, IMRN (1997), 173–186.

(5) R. Pandharipande, *Counting elliptic plane curves with fixed j-invariant*, Proc. AMS. **125** (1997), 3471–3479.

(6) J. Harris, B. Mazur, and R. Pandharipande, *Unirationality of smooth hypersurfaces*, Duke J. Math. **95** (1998), 125–160.

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(8) R. Pandharipande, *The equivariant Chow rings of $O(k)$, $SO(2k+1)$, and $SO(4)$*, J. Reine Angew. Math. **496** (1998), 131–148.

(9) L. Göttsche and R. Pandharipande, *The quantum cohomology of blow-ups of $\mathbb{P}^2$ and enumerative geometry*, J. Diff. Geom. **48** (1998), 61–90.

(10) R. Pandharipande, *Rational curves on hypersurfaces [after A. Givental]*, Séminaire Bourbaki **848**, 50ème année, 1997–1998.

(11) E. Getzler and R. Pandharipande, *Virasoro constraints and Chern classes of the Hodge bundle*, Nuclear Phys. **B530** (1998), 701–714.

(12) R. Pandharipande, *Intersections of $\mathbb{Q}$-divisors on Kontsevich's moduli space $\overline{M}_{0,n}(\mathbb{P}^r, d)$ and enumerative geometry*, Trans. AMS. **4** (1999), 1481–1505.

(13) R. Pandharipande, *A geometric construction of Getzler's elliptic relation*, Math. Ann. **313** (1999), 715–729.

(14) T. Graber and R. Pandharipande, *Localization of virtual classes*, Invent. Math. **135** (1999), 487–518.

(15) R. Pandharipande, *Hodge integrals and degenerate contributions*, Comm. Math. Phys. **208** (1999), 489–506.

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(17) C. Faber and R. Pandharipande, *Hodge integrals and Gromov-Witten theory*, Invent. Math. **139** (2000), 173–199.

(18) R. Pandharipande, *The Toda equation and the Gromov-Witten theory of the Riemann sphere*, Lett. Math. Phys. **53** (2000), 59–74.

(19) C. Faber and R. Pandharipande (with an appendix by D. Zagier), *Logarithmic series and Hodge integrals in the tautological ring*, Michigan Math. J. **48** (2000), 215–252.

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(77) R. Pandharipande, A. Pixton, and D. Zvonkine, *Relations on $\overline{M}_{g,n}$ via 3-spin structures*, JAMS **28** (2015), 279–309.

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(83) R. Pandharipande and R. Thomas, *Notes on the proof of the KKV conjecture*, Surveys Diff. Geom. **21** (2016), 289–311.

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(92) R. Pandharipande, *A calculus for the moduli space of curves*, Proceedings of Algebraic geometry – Salt Lake City 2015, Proc. Sympos. Pure Math. **97** (2018), Part 1, 459–488.

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(94) R. Pandharipande, *Descendents for stable pairs on 3-folds*, Modern Geometry: A celebration of the work of Simon Donaldson, Proc. Sympos. Pure Math. **99** (2018), 251–288.

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(96) A. Marian, D. Oprea, and R. Pandharipande, *The combinatorics of Lehn's conjecture*, Jour. Math. Soc. Japan **1** (2019), 299–308.

(97) H. Lho and R. Pandharipande, *Holomorphic anomaly equations for the formal quintic*, Peking Mathematical Journal (2019), https://doi.org/10.1007/s42543-018-0008-0.

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(101) R. Pandharipande and H.-H. Tseng, *Higher genus Gromov-Witten theory of $Hilb^n(\mathbb{C}^2)$ and CohFTs associated to local curves*, Forum of Mathematics Pi **7** (2019).

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(106) F. Janda, R. Pandharipande, A. Pixton, and D. Zvonkine, *Double ramification cycles for target varieties*, J. of Topology **13** (2020), 1725–1766.

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(109) N. Arbesfeld, D. Johnson, W. Lim, D. Oprea, and R. Pandharipande, *The virtual K-theory of the Quot schemes of surfaces*, J. Geometry and Physics **164** (2021), Paper No. 104154.

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(111) A. Marian, D. Oprea, and R. Pandharipande, *Higher rank Segre integrals over the Hilbert scheme of points*, JEMS **24** (2022), 2979–3015.

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Preprints

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(2) D. Holmes, S. Molcho, R. Pandharipande, A. Pixton, and J. Schmitt, *Logarithmic double ramification cycles*, preprint 2022.
(3) S. Canning, D. Oprea, R. Pandharipande, *The Chow ring of the moduli space of degree 2 quasi-polarized K3 surfaces*, preprint 2023.
(4) S. Canning, S. Molcho, D. Oprea, R. Pandharipande, *Tautological projection for cycles on the moduli space of abelian varieties*, preprint 2024.