

# Nariya KAWAZUMI

## Personal Data

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Born on December 30, 1964  
in Tokyo (Japan)

Japanese nationality

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Graduate School of Mathematical Sciences  
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## Positions

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**Since 2019:** Professor at the Graduate School of Mathematical Sciences, University of Tokyo.  
**1999-2019:** Associate professor at the Graduate School of Mathematical Sciences, University of Tokyo.  
**1995-1999:** Associate professor at the Faculty of Science, Hokkaido University.  
**1994-1995:** Lecturer at the Faculty of Science, Hokkaido University.  
**1992-1994:** Research associate at the Graduate School of Mathematical Sciences, University of Tokyo.  
**1989-1992:** Research associate at the Faculty of Science, University of Tokyo.

## Degrees

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**Jan. 1994:** Ph.D. in Mathematical Sciences (by thesis only), University of Tokyo.  
**Mar. 1989:** Master of Science (advisor: Yukio Matsumoto), University of Tokyo.

## Research articles (2015-2021)

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- A. ALEKSEEV, N. KAWAZUMI, Y. KUNO, F. NAEF. Goldman-Turaev formality implies Kashiwara-Vergne, *Quantum Topology*, 11 (2020) 657–689.
- N. KAWAZUMI. The mapping class group orbits in the framings of compact surfaces, *Quarterly J. Math.*, 69 (2018) 1287–1302.
- A. ALEKSEEV, N. KAWAZUMI, Y. KUNO, F. NAEF. The Goldman-Turaev Lie bialgebra in genus zero and the Kashiwara-Vergne problem, *Adv. Math.*, 326 (2018) 1–53.
- S. FUKUHARA, N. KAWAZUMI, Y. KUNO. Self-intersections of curves on a surface and Bernoulli numbers, *Osaka Journal of Mathematics*, 55 (2018) 761–768.
- N. KAWAZUMI. A tensorial description of the Turaev cobracket on genus 0 compact surfaces, *RIMS Kokyuroku Bessatsu B66* (2017) 1–13.
- A. ALEKSEEV, N. KAWAZUMI, Y. KUNO, F. NAEF. Higher genus Kashiwara-Vergne problems and the Goldman-Turaev Lie bialgebra, *C. R. Acad. Sci. Paris, Ser. I.* 355 (2017) 123–127.
- N. KAWAZUMI, Y. KUNO. Intersections of curves on surfaces and their applications to mapping class groups, *Ann. Inst. Fourier* 65 (2015) 2711–2762.

## Prepublications (2015-2021)

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- N. KAWAZUMI, C. VESPA. On the wheeled PROP of stable cohomology of  $\text{Aut}(F_n)$  with bivariant coefficients, preprint: arXiv: 2105.14497 (2021)
- A. ALEKSEEV, N. KAWAZUMI, Y. KUNO, F. NAEF. The Goldman-Turaev Lie bialgebra and the Kashiwara-Vergne problem in higher genera, preprint: arXiv:1804.09566 (2018)

## Grants (as the principal investigator)

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- 2019-2022:** JSPS Grant-in-Aid for Scientific Research (B) (19H001784) (19: 4100 000 yen, 20: 4000 000 yen, 21: 5000 000 yen.)
- 2018-2019:** JSPS-CNRS joint project (with C. Vespa (Strasbourg)) (18: 2381 381 yen, 19: 2337 500 yen.)
- 2015-2017:** JSPS Grant-in-Aid for Scientific Research (B) (15H03617) (15: 4800 000 yen, 16: 3700 000 yen, 17: 4600 000 yen.)
- 2012-2014:** JSPS Grant-in-Aid for Scientific Research (B) (24340010) (12: 3000 000 yen, 13: 5200 000 yen, 14: 5300 000 yen.)
- 2006-2009:** JSPS Grant-in-Aid for Scientific Research (A) (18204002) (06: 6700 000 yen, 07: 6100 000 yen, 08: 6200 000 yen, 09: 6200 000 yen.)
- 2005-2009:** JSPS Grant-in-Aid on Priority Areas (17083006) (05: 4000 000 yen, 06: 6500 000 yen, 07: 6500 000 yen, 08: 6500 000 yen, 09: 5900 000 yen.)
- 2002-2004:** JSPS Grant-in-Aid for Scientific Research (C) (1) (14540065) (12: 1400 000 yen, 13: 1200 000 yen, 14: 1600 000 yen.)
- 1999-2001:** JSPS Grant-in-Aid for Scientific Research (C) (1) (11640054) (99: 1200 000 yen, 00: 1100 000 yen, 01: 1300 000 yen.)
- 1997-1998:** JSPS Grant-in-Aid for Encouragement of Young Scientists (A) (09740043) (97: 1600 000 yen, 98: 1200 000 yen.)
- 1995:** JSPS Grant-in-Aid for Encouragement of Young Scientists (A) (07740045) (95: 1200 000 yen.)
- 1994:** JSPS Grant-in-Aid for Encouragement of Young Scientists (A) (06740048) (94: 1200 000 yen.)
- 1994:** JSPS Grant-in-Aid for Scientific Research on Priority Areas (06221218) (94: 1000 000 yen.)

## Supervision of Ph.D students:

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- 2020:** Co-Advisor of the Ph.D thesis of S. V. Burkin (with Advisor T. Kohno).
- 2017-2020:** Advisor of the Ph.D thesis of T. Ishibashi and R. Chihara.
- 2016-2019:** Advisor of the Ph.D thesis of S. Wakatsuki.
- 2015-2018:** Advisor of the Ph.D thesis of S. Tsuji.
- 2007-2010:** Advisor of the Ph.D thesis of Y. Kuno and M. Sato.
- 2004-2006:** Advisor of the Ph.D thesis of T. Satoh.
- 2002-2006:** Advisor of the Ph.D thesis of Y. Tadokoro.
- 1996-1999:** Co-Advisor of the Ph.D thesis of T. Uemura (with Advisor T. Suwa (Hokkaido-Japan))