

## Unit Name

Geometric Group Theory Unit  
Professor Koji Fujiwara

## Collaborations

1. Tomotada Ohtsuki, Kyoto University, Japan, Knot invariants
2. Zlil Sela, Hebrew University, Isreal, Growth of groups
3. Mladen Bestvina, U of Utah, USA, Quasi-morphisms
4. Emmanuel Breuillard, U of Oxford, UK, Spectral gap
5. Ric Wade, Warwick University, UK, Quasi-morphisms
6. Ryokichi Tanaka, Kyoto University, Japan, Random walks
7. Bingxue Tao, Kyoto University, Japan, Hyperbolic groups
8. Ryosei Itakura, Kyoto University, Japan, Automat groups

## Scholarly Contributions and Creative Productions (by Faculty)

1. Fujiwara, Koji. An example of a closed 5-manifold of nonpositive curvature that fibers over a circle. Sémin. Congr., 34. Société Mathématique de France, Paris, 2025, 99–106. ISBN: 978-2-85629-998-2

## Presentation at Conference

1. Fujiwara, K.  
Uniform Exponential Growth of Discrete Subgroups on Hadamard Manifolds. International conference “Actions on graphs and metric spaces”. Newton Institute, UK. 2025.
2. Fujiwara, K.  
The Rates of Growth in Hyperbolic Groups. The 10th China-Japan Geometry Conference 2025. Nanjing University of Science and Technology. Nanjing. China.
3. Fujiwara, K.  
Uniform Exponential Growth of Discrete Subgroups on Hadamard Manifolds. International conference “ Mapping Class Groups at KIAS 2025”. Korea.
4. Fujiwara. K.  
“JIR についてと OIST について”. データ記述科学と数理科学のアウトリーチについての研究会.  
九州大学・マス・フォア・インダストリ研究所

## Honors, Awards & Fellowships

Term 3 2025 - Ongoing	Honorary Professor, 名誉教授, 2025, Kyoto University [Fiscal Year: 2025-02-24]
Term 2 2023 - Term 2 2028	Honorary Member of SCR(2023-2028), 2023, Magdalen College, University of Oxford [Fiscal Year: 2028-04-01]
Term 1 2025 – term 3 2028	Kakenhi, Grant-in-Aid for Scientific Research (A). Principal investigator.

## External Service

Term 1 2025 - Term 2 2026	Project Professor, Center for Advanced Research and Education, Institute for Advanced Study, Kyoto University. 京都大学高等研究院・高等研究センター・特任教授 [Fiscal Year: 2025-09-01]
Term 1 2025 - Ongoing	Project Professor, RIMS, Kyoto University [Fiscal Year: 2025-09-01]
Term 1 2025 - Term 2 2028	Visiting Principal Research Scientist, RIKEN Center for Interdisciplinary Theoretical and Mathematical Sciences (iTHEMS), 国立研究開発法人 理化学研究所数理創造研究センター・客員主管研究員 [Fiscal Year: 2025-10-01]
Term 1 2023 – term 3 2025	Supervising one PhD student (Bingxue Tao) at Kyoto University (PhD awarded)
Term 1 2024 – term 3 2025	Supervising two Master course student at Kyoto University (Master degree awarded)
Term 3 2024 - Ongoing	Editor-in-Chief, JMSJ (Journal of the Mathematical Society of Japan). The Mathematical Society of Japan. 一般社団法人日本数学会, 編集長. 日本数学会専門誌 <a href="https://www.mathsoc.jp/publication/JMSJ/">https://www.mathsoc.jp/publication/JMSJ/</a> [Fiscal Year: 2024-04-01]
Term 2 2019 - Term 2 2026	Managing Editor, Kyoto Journal of Mathematics. Duke University Press, <a href="https://www.dukeupress.edu/kyoto-journal-of-mathematics#editors">https://www.dukeupress.edu/kyoto-journal-of-mathematics#editors</a> [Fiscal Year: 2019-04-01]
Term 1 2025 - Term 3 2026	Committee for the Geometry Prize, Mathematical Society of Japan, Mathematical Society of Japan Geometry Section. <a href="https://www.mathsoc.jp/section/geometry/index.html">https://www.mathsoc.jp/section/geometry/index.html</a> [Fiscal Year: 2025-09-01]
Term 1 2025 - Term 1 2026	Member, Award Selection Committee, Mathematical Society of Japan. 日本数学会賞・受賞候補者選考委員会 委員. [Fiscal Year: 2025-10-01]
Term 1 2025 -Term3 2025	科研費・国際先導研究（理工系）、審査委. JSPS International Leading Research. Selection Committee. Member
Term 2 2019 - Ongoing	Editorial Advisor for the Iwanami Series in Mathematics, Iwanami Shoten. 岩波書店, 岩波数学叢書の編集顧問 [Fiscal Year: 2019-04-01]
Term 2 2013 - Ongoing	Editor-in-Chief of Keirinkan's authorized high school mathematics textbooks, Keirinkan. 啓林館, 啓林館、高校数学の検定教科書, 編集長 <a href="https://www.shinko-keirin.co.jp/keirinkan/kou/math2022/text/alpha/#video_main01">https://www.shinko-keirin.co.jp/keirinkan/kou/math2022/text/alpha/#video_main01</a> [Fiscal Year: 2013-04-01]
Term 3 2025 - Term 3 2026	Committee Member, Education Committee, Mathematical Society of Japan, 日本数学会教育委員会 委員. [Fiscal Year: 2025-07-01]
Term 1 2010 - Ongoing	Founder and sole organizer of the award-winning “Journalist in Residence (JIR) in Mathematics program”, a nationwide outreach initiative established in 2010 in collaboration with the Mathematical Society of Japan. The program connects mathematics and the general public through extended visits of journalists and media professionals to leading mathematics institutes in Japan. <a href="https://www.math.kyoto-u.ac.jp/~kfujiwara/jir/jir.html">https://www.math.kyoto-u.ac.jp/~kfujiwara/jir/jir.html</a> [Fiscal Year: 2025-09-01]