Contact Information	School of Mathematics and Statistics University of Glasgow University Place Glasgow G12 8QQ United Kingdom robin.bartlett.math@gmail.com https://robin-bartlett.github.io./
Research Interests	Algebraic number theory, the <i>p</i> -adic Langlands program, and links to geometric repre- sentation theory. I am particularly interested in combining tools from integral <i>p</i> -adic Hodge theory and algebraic geometry to study of moduli spaces of <i>p</i> -adic Galois rep- resentations.
Employment	University of Glasgow
	Rankin-Sneddon fellow, since 2023
	University of Münster
	Postdoctoral researcher, 2020-2023
	Max Planck Institute for Mathematics (Bonn)
	Postdoctoral researcher, 2018-2020
Education	Kings College London and the London School of Geometry and Number Theory
	Ph.D. in Mathematics, $01/12/2018$ Thesis: On the reduction modulo p of crystalline representations
	• Supervised by Fred Diamond.
	University of Warwick
	MMath 2010-2014
	• Awarded first class degree.
Papers	 Irreducibility of some crystalline loci with irregular Hodge-Tate weights To appear, Proceedings of the American Mathematical Society Cycles relations in the affine grassmannian and applications to Breuil-Mézard for G-crystalline representations Submitted 2023
	3. Explicit Serre weights for GL_2 (with Misja Steinmetz) Submitted 2022
	 4. Degenerating products of flag varieties and applications to the Breuil-Mézard con- jecture
	Selecta. Math. 30, 17 (2024)
	Journal de Théorie des Nombres de Bordeaux, Volume 35 (2023) no. 2, pp. 335-371.
	6. On the irreducible components of some crystalline deformation rings Forum of Mathematics Sigma, Volume 8, 2020, c22
	 Potentially diagonalisable crystalline lifts with controlled Hodge–Tate weights Documenta Mathematica, 26, 795-827, 2021.

	8. Inertial and Hodge–Tate weights of crystalline representations Mathematische Annalen, 376(1), 645-681.
Services	 Organised the Summer semester 2022 Oberseminar (study group) in Münster on Modularity lifting theorems. Co-organised (with Eugen Hellmann) Münster number theory seminar (Summer semester 2021). Co-founded London junion number theory seminar (2016-2017) Referee for journals including J. Reine Angew. Math., Algebra and Number theory, Forum of Math Pi, Ann. Sci. de l'ENS, J. de l'Ecole Poly. Math, J. Théor. Nombres Bordeaux, Documenta Mathematica, and Math. Res. Lett.
Grants and	2024 Awarded funding for 1 month visit to the Max Planck Institute for
AWARDS	2016 mathematics, Bonn. Value: EU 2500. 2016 Awarded funding by King's College London Global research grant to support a visit to Professor Frank Calegari and Professor Matthew Emerton at University of Chicago. Value: GBP 2000.
Conference talks	 Journées Arithmétiques 2023, Nancy (July 2023) Banff International Research Station, Modularity and Moduli Spaces, CMO Oaxaca (Oct. 2019)
Seminar talks	 University of Edinburgh, Algebra seminar (Jan. 2024) University of Cambridge, Number theory seminar (Jan. 2024) Jussieu, Séminaire Groupes Réductifs et Formes Automorphes (Nov. 2023) University of Glasgow, Algebra and Number theory seminar (Nov. 2023) Queen Mary Number theory seminar (July 2023) University of Münster (Sep. 2022) SUSTech, China (Mar. 2022) University of Chicago Number theory seminar (Oct. 2021) Queen Mary University London (Mar. 2021) University of Arizona (Feb. 2022) University of Münster (Nov. 2020) University of Münster (Nov. 2020) University of Rennes (cancelled) (Jan. 2020) University of Leiden (Dec. 2019) Essen Arithmetic Geometry Research Seminar (Apr. 2019) Max Planck Institute for Mathematics, Bonn, Number Theory Seminar (May 2018) University of Purdue Automorphic Forms and Representation Theory Seminar (May 2018) University of Chicago Number Theory Seminar (May 2018) Junior London Number Theory seminar (Jan. 2015 - 2018, at least one talk a term)
TEACHING	University of Glasgow
EXPERIENCE	Calculus side of Maths 1C, Winter term 2024-25
	• Lecturer for first year undergraduate course aimed at non-mathematics students.
	Calculus side of Maths 1, Winter term 2023-24

• Lecturer for first year undergraduate mathematics course.

Further complex analysis, Winter term 2023-24

• Course head for fourth year undergraduate course on complex analysis.

University of Münster

Masters course: Deformation theory of Galois representations (Winter semester 2021/22)

• Course aimed at masters and Phd students.

King's College London Mathematics School

Class tutor (2017-2018)

• Taught two groups of 16-17 year old students mathematical problem solving classes.

REFERENCES Prof. Fred Diamond Department of Mathematics King's College London London WC2R 2LS United Kingdom fred.diamond@kcl.ac.uk

> Prof. Toby Gee Department of Mathematics Imperial College London London SW7 2AZ United Kingdom toby.gee@imperial.ac.uk

Dr. Shu Sasaki Department of Mathematics Queen Mary University of London London E1 4NS United Kingdom s.sasaki@qmul.ac.uk

LANGUAGES English (native), French (reading), German (intermediate).