Finn Bartsch – Curriculum Vitae

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Education

PhD Mathematics, expected graduation Fall 2026
Radboud-Universiteit Nijmegen, 2022-2026
Thesis advisor: Ariyan Javanpeykar

M. Sc. Mathematics, obtained in September 2022
Johannes Gutenberg-Universität Mainz, 2020-2022
Thesis advisor: Ariyan Javanpeykar
Thesis title: *Varieties with many rational points over function fields*

B. Sc. Mathematics, obtained in June 2020
Johannes Gutenberg-Universität Mainz, 2017-2020
Thesis advisor: Manuel Blickle
Thesis title: *Delta-Ringe*

Papers

The Kobayashi pseudometric in the presence of log-terminal singularities
Preprint, submitted (2025).

On the finiteness of maps into simple abelian varieties satisfying certain tangency conditions
Bulletin of the London Mathematical Society, Volume 57(9), pp. 2723-2730 (2025)

New examples of geometrically special varieties: K3 surfaces, Enriques surfaces, and algebraic groups
Preprint, submitted (2025).

Symmetric products and puncturing Campana-special varieties (joint with Ariyan Javanpeykar and Aaron Levin)
Preprint, submitted (2024).

The Weakly Special Conjecture contradicts orbifold Mordell, and thus abc (joint with Frédéric Campana, Ariyan Javanpeykar, and Olivier Wittenberg)
Preprint, submitted (2024).

Parshin's method and the geometric Bombieri–Lang conjecture (joint with Ariyan Javanpeykar)
Indagationes Mathematicae, Jacob Murre special issue, to appear.

Weakly-special threefolds and non-density of rational points (joint with Ariyan Javanpeykar and Erwan Rousseau)
Journal of the London Mathematical Society, to appear.

Kobayashi–Ochiai's finiteness theorem for orbifold pairs of general type (joint with Ariyan Javanpeykar)
Journal of the Institute of Mathematics of Jussieu (2024).

Teaching

Teaching assistant, Radboud-Universiteit Nijmegen, 2023-2026
Exercise classes and grading for *Riemann surfaces*, *Galois Theory*, and *Sheaves and Geometry*

Teaching assistant, Johannes Gutenberg-Universität Mainz, 2019-2022
Exercise classes and grading for *Riemannsche Flächen*, *Grundlagen der Numerik*, *Zahlentheorie*, and *Mathematik für Physiker*

Talks

Research talks

Symmetric products and puncturing Campana-special varieties
Séminaire Géométrie et Topologie in Brest. (26th September 2025)

Symmetric products and puncturing Campana-special varieties
Algebraic Geometry Seminar in Utrecht. (12th June 2025)

Symmetric products and puncturing Campana-special varieties
Arithmetic Geometry in Cabourg. (15th May 2025)

Symmetric products and puncturing Campana-special varieties
Diophantine and Rationality Problems in Sofia. (11th March 2025)

Kobayashi–Ochiai's finiteness theorem for Campana pairs of general type
DIAMANT Symposium Spring 2024 in Utrecht. (11th April 2024)

Learning seminar talks

Valuative ideals
Intercity Seminar on Resolution of Singularities. (4th April 2025)

The stable reduction theorem for curves
Algebraic Geometry Seminar in Nijmegen. (19th November 2024)

Points of low degree on smooth projective curves
Algebraic Geometry Seminar in Nijmegen. (22nd October 2024)

Parshin's proof of Bombieri–Lang for subvarieties of abelian varieties
Seminar on Lang's Conjectures 2023 in Nijmegen. (1st December 2023)

The finiteness theorem of Kobayashi–Ochiai
Seminar on Lang's Conjectures 2023 in Nijmegen. (15th September 2023)