

# 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

8. *The Kobayashi pseudometric in the presence of log-terminal singularities*  
Preprint, submitted (2025).
7. *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).
6. *New examples of geometrically special varieties: K3 surfaces, Enriques surfaces, and algebraic groups*  
Preprint, submitted (2025).
5. *Symmetric products and puncturing Campana-special varieties* (joint with Ariyan Javanpeykar and Aaron Levin)  
Preprint, submitted (2024).
4. *The Weakly Special Conjecture contradicts orbifold Mordell, and thus abc* (joint with Frédéric Campana, Ariyan Javanpeykar, and Olivier Wittenberg)  
Preprint, submitted (2024).
3. *Parshin's method and the geometric Bombieri–Lang conjecture* (joint with Ariyan Javanpeykar)  
Indagationes Mathematicae, Jacob Murre special issue, to appear.
2. *Weakly-special threefolds and non-density of rational points* (joint with Ariyan Javanpeykar and Erwan Rousseau)  
Journal of the London Mathematical Society, to appear.
1. *Kobayashi–Ochiai's finiteness theorem for orbifold pairs of general type* (joint with Ariyan Javanpeykar)  
Journal of the Institute of Mathematics of Jussieu, Volume 23(6), pp. 2713-2732 (2024).

## **Teaching**

### **Radboud-Universiteit Nijmegen**

- TA for Riemann Surfaces, Mastermath Course (Spring 2025)
- TA for Sheaves and Geometry (Autumn 2024)
- TA for Riemann Surfaces, Mastermath Course (Spring 2024)
- TA for Galois Theory (Autumn 2023)
- TA for Riemann Surfaces, Mastermath Course (Spring 2023)

### **Johannes Gutenberg-Universität Mainz**

- TA for Algebraische Kurven und Riemannsche Flächen (Summer 2022)
- TA for Grundlagen der Numerik (Summer 2022)
- TA for Zahlentheorie (Winter 2021/22)
- TA for Mathematik für Physiker 3a (Summer 2021)
- TA for Mathematik für Physiker 2b (Winter 2019/20)

## **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)