

Yichen Qin

Curriculum Vitae

Centre de Mathématiques Laurent Schwartz
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Research Interests

My research interests are primarily in arithmetic geometry and number theory, mainly about the arithmetic of linear differential equations and exponential sums.

Education

- 10/2019– **PhD student in Mathematics**, École Polytechnique, France, under the present supervision of Javier Fresán.
Estimated thesis defense date: September 2022
- 09/2016– **Master in Mathematics**, École normale supérieure, Paris and Université Paris 09/2019 Diderot, France.
- 09/2013– **Bachelor in Mathematics**, Tsinghua University, China.
07/2017

Talks

[talks on my research](#)

- 2021 *L-functions of Kloosterman sheaves*. Algebraic Geometry seminar in Humboldt-Universität zu Berlin, 2 Feb, 2022
- 2021 *L-functions of Kloosterman sheaves*. Seminar in Peking University, 27 Dec, 2021
[expositionary talks](#)
- 2021 *The Malgrange-Sibuya theorem and Stokes torsors*. Summer School *Irregular Riemann-Hilbert Correspondence*, Aussois, 20–27 September 2021.
- 2018 *Standard Hodge theory of H^1 as non-abelian Hodge theory*. Jeunes en Arithmétique et Variétés Algébriques, Tatihou Island, 22–27 July 2018.

Teaching

- 2021-2022 Teaching assistant of *MAA201-Euclidean and Hermitian spaces* at École Polytechnique.
- 2020-2021 Teaching assistant of *MAA206-Quadratic Forms and Applications* at École Polytechnique.
- 2019-2020 Teaching assistant of *MAA105-Integral and Differential Calculus* at École Polytechnique.

2018-2019 Teaching assistant of *MAA206-Quadratic Forms and Applications* at École Polytechnique.

Seminars Organized

2019-2022 RéGA (Réseau des Étudiants en Géométrie Algébrique), IHP

Conferences and Schools

2022 Conference *D-modules: Applications to Algebraic Geometry, Arithmetic and Mirror Symmetry*, CIRM, Marseille, 11–15 April 2022.

2021 Summer school *Irregular Riemann-Hilbert Correspondence*, Aussois, 20–24 September 2021.

2019 Summer school *School on Motives and Stacks*, Essen, 23–27 September 2019.

2019 Summer school *Immeubles et grassmanniennes affines*, CIRM, Marseille, 26 August–6 September 2019.

2019 Summer school *Mixed Hodge Modules: Applications*, Île de Tatihou, 22–26, July 2019.

2019 Summer school *Arithmetic of connections*, ETH Zürich, Monte Verità, 15–19 July 2019.

2019 Summer school *Arithmetic Geometry in Carthage*, Tunisian Academy Beit al-Hikma, Carthage, Tunisia, 17–21 June 2019.

2019 Winter school *Trace functions and their applications*, ETH Zürich, Monte Verità, 13–18 january 2019.

2018 Summer school *Hodge theory of character varieties and the $P = W$ conjecture*, Île de Tatihou, 22–27 july 2018.

2018 Conference *Arithmetic and Algebraic Geometry: a conference in honor of Ofer Gabber on the occasion of his 60th birthday*, IHÉS, 11–15 june 2018.

2017 Master Class *Arithmétique et Géométrie Algébrique : une introduction*. IRMA, Strasbourg, 10–14 april 2017.

Awards and scholarship

2019–2022 ‘Bourses Monge’ scholarship of École Polytechnique.

2016–2019 ‘International selection’ program of École normale supérieure, Paris.

2016 Team Award(Gold medal) with Yi Wang, Chengyang Shao, Yuxuan Yang and Haoyu Wang, S.T.Yau College Student Mathematics Contests.

2014–2016 Tsinghua Xuetang scholarship.

2015 Friends of the Tsinghua-Guanghua scholarship.

2014 Friends of the Tsinghua-Zheng Geru scholarship.

2013 Third prize at the Chinese Mathematical Olympiad.

2011 First prize at the Chinese Western Mathematical Olympiad.

2011&2012 First prize at the National High School Competition of Mathematics.

Language

Chinese **Mother tongue**

English **Fluent**

French **Intermediate**