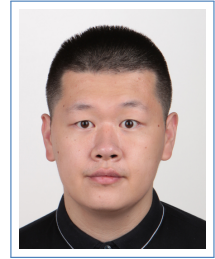


Yichen Qin

Curriculum Vitae

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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.

Career and Education

- 2019–2022 **Ph.D. in Mathematics**, CMLS, École Polytechnique, France.
Fonctions L des faisceaux de Kloosterman. Defended on 16/09/2022.
Advisors: J. Fresán, C. Sabbah. Jury: L. Fu, D. Izequierdo, W. Nizioł, C. Seveneck.
- 2016–2019 **Master in Mathematics**, École normale supérieure - PSL and Université Paris 7, France.
- 2013–2017 **Bachelor in Mathematics**, Tsinghua University, China.

Talks

Talks on my research

- 2022 *L-functions of Kloosterman sheaves*. Algebraic Geometry seminar in Humboldt-Universität zu Berlin, 2 February 2022
- 2021 *L-functions of Kloosterman sheaves*. Seminar in Peking University, 27 December 2021

Expositional 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.

Posters

- 2022 *Hodge numbers of some Kloosterman motives*. D-modules: Applications en géométrie algébrique, arithmétique et symétrie miroir, Luminy Marseille, 11–15 April, 2022.

Seminar Organized

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

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.

Conferences and Schools

- 2022 Summer school *Recent Perspectives on Hodge Theory*, Scuola Normale Superiore, Pisa, 19-23 September 2022.
- 2022 Conference *Number Theory and Algebraic Geometry*, ICM sectional workshop, ETH Zürich, 11-14 July 2022.
- 2022 Summer school on *Motives and Arithmetic Groups*, IRMA, Strasbourg, 13-17 June 2022.
- 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 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 Xuetaang 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**