

# Yichen Qin

## Curriculum Vitae

Centre de Mathématiques Laurent Schwartz  
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### Research Interests

My research domain is arithmetic geometry. I am mainly interested in the arithmetic of linear differential equations, periods and exponential sums.

### Education

- 2019–present **PhD student in Mathematics**, École Polytechnique, France, under the supervision of Javier Fresán.
- 2016–2019 **Master in Mathematics**, École normale supérieure, Paris and Université Paris Diderot, France.
- 2013–2017 **Bachelor in Mathematics**, Tsinghua University, China.

### 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.

### Talks

#### expositionary talks

- 2018 *Standard Hodge theory of  $H^1$  as non-abelian Hodge theory*. Jeunes en Arithmétique et Variétés Algébriques, Tatihou Island, 22–27 July, 2018.
- 2021 *The Malgrange-Sibuya theorem and Stokes torsors*. Summer School Irregular Riemann-Hilbert Correspondence, Aussois, 20–27 September, 2021.

### Conferences and Schools

- 2021 Summer school *Irregular Riemann-Hilbert Correspondence*, Aussois, 20–24 September, 2019.
- 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 avril 2017.

### **Semminar Organized**

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

### **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**