

Keyao PENG

Doctorant

*Epiphany is not about solving a complex puzzle, but
something that was too simple to see.*

Education

- 2020– **Ph.D.**, *Institut Fourier, Université Grenoble Alpes*, Grenoble, France.
Algebraic geometry, with advisor *Jean Fasel*
- 2019–2020 **Master**, *Institut Fourier, Université Grenoble Alpes*, Grenoble, France.
Mathématiques fondamentales
- 2015–2019 **Bachelor**, *Taishan College, Shandong University*, Jinan, China.
Majored in mathematics

Academic Activities

- Feb 2022 Logic and higher structures, CIRM
- Jan 2022 Linear Logic Winter School, CIRM
- Sep 2021 Unifying Themes in Geometry, Lake Como
- Sep 2021 The Six-Functor Formalism and Motivic Homotopy Theory, Milano
- Sep 2021 Summer School on Derived and Triangulated Categories, Wuppertal
- July 2021 Summer School "Illustrating Mathematics", PCMI
- July 2021 Summer School "Motivic Homotopy", PCMI
- July, Sep 2021 Series Workshops "Expanding Horizons of Inter-universal Teichmüller Theory", RIMS
- June 2021 Topos online, IHES
- June 2021 Tangent Categories and their Applications, BIRS
- 2020–2021 Working group on stratified homotopy theory, IAS
- July 2020 Summer School "Motivic, Equivariant and Non-commutative Homotopy Theory", IHES

Skill

Language

Chinese	Mother tongue	English	C1
French	B1		

Computer

Language	C#, Haskell, Purescript, Lean
Animation	Blender

Interest

- Synthetic geometry Study geometry without using analysis, including algebraic geometry, arithmetic geometry, algebraic analysis and more
- Homotopy The geometry of "path", like A1 homotopy theory, homotopy type theory
- Topos Sketch an elephant
- Higher math Higher means add homotopy to everything, like set, algebra, category, topos, etc.

Paper and Thesis

Keyao Peng. Sheaves and differential equations: An introduction to algebraic analysis, 2019.

Keyao Peng. Milnor-witt motivic cohomology of complements of hyperplane arrangements, 2020.