

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

- 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.