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

Aug 2022 Motivic Geometry Conference, Oslo
Jul 2022 Summer School on the Langlands program, IHES
Jun 2022 Harnessing motivic invariants, Essen
Jun 2022 Conférence A Toulouse pour Simpson, Toulouse
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

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Computer

Language	Typescript, 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.