KAIXING CAO

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· University of Milan

Ph.D. in Mathematics (Supervisor: Prof. Alberto Vezzani)

Milan, Italy Sep 2022 - Present

• Academy of Mathematics and System Science, Chinese Academy of Sciences

M.Sc. in Mathematics

Sep 2019 - Jun 2022

• Hohai University

B.Sc. in Mathematics

Nanjing, China

Sep 2015 - Jun 2019

Research Interest ____

Arithmetic Geometry, p-adic Geometry, p-adic Hodge Theory, Rigid Analytic Motive

Preprints .

- [1] **Kaixing Cao**. "A Weight Structure on Rigid Analytic Motives over a Field". completed; to be uploaded on arXiv. 2025.
- [2] **Kaixing Cao**. "Comparison of Hyodo-Kato and de Rham Fargues-Fontaine Cohomologies". completed; to be uploaded on arXiv. 2025.

Participation in conferences _____

• Geometric Aspects of the Langlands Correspondence [] Universität Duisburg-Essen

Essen, Germany August 2025

• Arakelov Geometry and Condensed Mathematics [] Institut de recherche mathématique avancée

Strasbourg, France *May* 2025

Milan, Italy

 $November\ 2024$

• Algebraic geometry: a motivic view [] Eidgenössische Technische Hochschule Zürich, ETH Zurich

Zurich, Switzerland January 2025

• Arithmetica Transalpina []

University of Milan

Regensberg, Germany

• Nearby Cycles and Derived Geometry [)
University of Regensberg

February and March 2024
Padova, Italy

• Arithmetica Transalpina [)
University of Padova

November 2023 Bonn, Germany

• Arbeitstagung 2023 on Condensed Mathematics [] Max Planck Institute for Mathematics, MPIM

Luminy, France

June 2023

March 2023

• Research School on Condensed Mathematics [] Centre International de Rencontres Mathématiques, CIRM

Milan - Padova, Italy

• PrisMiPd Prismatic Workshop [] First Meeting in Milan and Second Meeting in Padova

January and February 2023

• Mini-Course: p-adic Hodge Theory and Prismatic Cohomology [...] Beijing, China Beijing International Center for Mathematical Research, BICMR November - December, 2021 • Mini-Course: Perfectoid Spaces and p-adic Hodge Theory [) Beijing, China Beijing International Center for Mathematical Research, BICMR September - October, 2021 • From Modular Forms to Shimura Varieties: an Introduction [Beijing, China Beijing International Center for Mathematical Research, BICMR July, 2021 Talks _ • Reading Seminar on "(Light) Condensed Mathematics" Milan, Italy Analytic Rings Associated to Huber Pairs February, 2025 SeMIVA on "Spectral Algebraic Geometry" [] Milan, Italy Tannaka Duality for Truncated Cases July, 2024 • PhD²ays 2024 [) Milan, Italy An Introduction to Non-Archimedean Geometry March, 2024 Honors and Awards Doctoral Scholarship Oct 2022 - Sep 2025 University of Milan Merit Student Jun 2021 University of Chinese Academy of Science Chinese Mathematics Competition Nov 2017 CMC 1st Prize of Jiang Su Province · China Undergraduate Mathematical Contest in Modeling Nov 2017

CUMCM 1st Prize of Jiang Su Province