

# Qijun Yan

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## Personal Information

Born 1987 Jun 8  
Nationality Chinese  
Gender Male  
Languages Chinese, English

## Work Experience

22.07– now **Visitor**, BICMR, Peking University, Beijing.  
21.07–22. 06 **Research Assistant**, MCM, Chinese Academy of Sciences, Beijing.  
18.12–21.06 **Postdoctoral Fellow**, YMSC, Tsinghua University, Beijing.  
18.06–18.10 **Guest Researcher**, University of Duisburg-Essen, Essen.  
18.04–18.06 **Visiting Scientist**, Max Planck Institute for Mathematics, Bonn.

## Education

2017 **ALGANT PhD**, *Leiden University & the University of Milan*.  
Title: Adapted deformations and Ekedahl-Oort stratifications of Shimura varieties  
Supervisors: Fabrizio Andreatta (Milan) & Bart de Smit (Leiden)  
2013 **Master of Mathematics**, *Capital Normal University*, Beijing.  
2010 **Bachelor of Mathematics**, *Capital Normal University*, Beijing.

## Areas of Interest

Arithmetic algebraic geometry, Shimura varieties, Moduli spaces of Shtukas

## Publications/Preprints

- A local construction of zip period maps for Shimura varieties (to appear in *Rend. Semin. Mat. Univ. Padova*).
- Ekedahl-Oort strata of Shimura varieties via Breuil-Kisin module. Preprint, 2018, arXiv:1801.01354
- The representability of Viehmann's double coset spaces and a function field analogue of stacks of  $G$ -zips (In preparation).
- Some results on  $p$ -rank strata of Shimura varieties (with Chao Zhang, In preparation).

## Research Visits

Mar 2018 Capital Normal University, Beijing  
17.12–18.02 East China Normal University,

Shanghai Center for Mathematical Sciences  
17.06–17.09 Morningside Center of Mathematics, Beijing  
17.03–17.06 University of Duisburg-Essen, Essen

### Some Invited Talks

- Sep 2021 *A function field analogue of stacks of  $G$ -zips*, Workshop on Group Schemes and Related, Westlake University
- Feb 2021 *An alternative construction of the defining map for EO stratification of Shimura varieties*, Conference on Arithmetic Geometry, Nanking University
- Apr 2019 *Deformation of  $p$ -divisible groups via Breuil-Kisin modules*, CNU Workshop on Arithmetic Algebraic Geometry in honor of Professor Li Kezheng for his 70th birthday
- Jun 2018 *Ekedahl-Oort stratification of Shimura varieties via Breuil-Kisin modules*, University of Duisburg-Essen
- Jan 2017  *$G$ -adapted deformations and Ekedahl-Oort stratification of Shimura varieties*, Morningside Center of Mathematics

### Teaching Experience

- Teaching assistant for *Abstract Algebra*, undergraduate course in Tsinghua University, September 2020 – January 2021.
- Instructor for *Introduction to Shimura varieties*, two-month online course in Yau Mathematical Sciences Center, July 2020 – August 2020.
- Teaching assistant for *Algebraic Geometry*, graduate student course in Leiden University, October 2016– January 2017.
- Teaching assistant for *Linear Algebra*, undergraduate student course in Capital Normal University, September 2011 – January 2012.