#### ☑ qzhu@mpim-bonn.mpg.de ③ qizhumath.wixsite.com/math in Qi Zhu

# Qi Zhu

| 17 1 |    |     |     |   |    |
|------|----|-----|-----|---|----|
| Ed   | 11 | (1) | +1  |   | 13 |
| Lu   | u  | Lа  | ·LL | U | LL |

2023 – ongoing Max Planck Institute for Mathematics, Bonn

Ph.D. Mathematics

Supervisor: Markus Hausmann

2020 – 2023 University of Bonn, Bonn

M.Sc. Mathematics

Grade: 1.1 (Best possible grade: 1.0)

2017 – 2020 Technical University of Munich, Munich

B.Sc. Mathematics, Minor in Computer Science

Grade: 1.0 (Best possible grade: 1.0)

Fall 2019 University of Minnesota, Minneapolis

**Exchange Semester** 

Grade: 4.0 (Best possible grade: 4.0)

#### **Academic Work**

2023 Master's Thesis, University of Bonn

Thesis title: Fractured Structure on Condensed Anima

Supervisor: Nima Rasekh

2020 **Project Thesis**, Technical University of Munich

Thesis title: Tannakian Formalism Supervisor: Claudia Scheimbauer

2020 Bachelor's Thesis, Technical University of Munich

Thesis title: Die p-adischen komplexen Zahlen als Periodenring

Supervisor: Eva Viehmann

#### **Selected Awards**

2018 Silver Medal at the International Mathematics Competition (IMC)

2018 Medal at the Vojtěch Jarník International Mathematical Competition (VJIMC)

2018 Special Prize at the final round of the Bundeswettbewerb Mathematik (3 of 1142)

2017 DMV Abiturpreis (1 of 107)

2017 First Prize at the Bundeswettbewerb Mathematik, Round 2 (44 of 1142)

2016 First Prize at the Bundeswettbewerb Mathematik, Round 2 (59 of 1426)

2015 First Prize at the Bundeswettbewerb Informatik

### **Selected Scholarships**

2022/23 Deutschlandstipendium Bonn (3600€)

2019/20 Deutschlandstipendium TUM (3600€)

2018/19 Deutschlandstipendium TUM (3600€)

2019 TUMExchange (exchange semester at the University of Minnesota, tuition waiver)

## **Teaching Experience**

Seminars

|                | Reading seminar in Six Functor Formalisms (joint with Kaif Hilman and Lucas Piessevaux)   |
|----------------|---|
| 2025           | University of Bonn, Bonn<br>Reading seminar in Motivic Homotopy Theory (joint with Fabio Neugebauer and Lucas<br>Piessevaux)            |
|                | Courses   |
| 2025           | University of Bonn, Bonn Teaching assistant in Einführung in die Geometrie und Topologie  |
| 2024/25        | University of Bonn, Bonn Tutor in Algebraic Topology 1  |
| 2024           | University of Bonn, Bonn Teaching assistant in Einführung in die Geometrie und Topologie  |
| 2023/24        | University of Bonn, Bonn Tutor in Topology 1  |
| 2023           | University of Bonn, Bonn<br>Tutor in Einführung in die Geometrie und Topologie  |
| 2018/19        | <b>Technical University of Munich</b> , Munich<br>Homework grading in Analysis 1  |
| 2018           | Technical University of Munich, Munich Tutor in a precourse for mathematics   |
|                | Supervision   |
| 2025           | <b>Twoples</b> , <i>International</i> Mentor of Khai Bin Chan in the Twoples project <i>Universal Properties of Semidirect Products</i> |
|                | Work Experience   |
| 2015           | ReliaTec GmbH, Garching System and Software – Development, Electrical Engineering, Computer Science                                     |
|                | Talks and Presentations   |
|                | Invited Talks   |
| December 2024  | <b>Topology Seminar</b> , <i>EPFL</i> Title: Condensed Anima as a Fractured Topos   |
|                | Selected List of Talks  |
| November 2025  | Six Functor Formalisms Seminar, Bonn Title: Applications to Representation Theory   |
| October 2025   | <b>Motivic Homotopy Theory Seminar</b> , <i>Bonn</i> Title: Slice Filtration and <i>K</i> -Theory                                       |
| October 2025   | Kleine AT, Bonn Title: Evenness 1   |
| September 2025 | <b>European Autumn School in Topology 2025 (EAST)</b> , Den Dolder Title: Spectral Sequences  |
| July 2025      | <b>European Talbot</b> , Kolding Title: Equivariant Multiplicative Thom Spectra   |
| May 2025       | IMPRS Seminar, Max Planck Institute for Mathematics Title: The Hopf Invariant One Problem and the Adams Spectral Sequence               |
| September 2024 | <b>European Autumn School in Topology 2024 (EAST)</b> , Den Dolder Title: Equivariant Highly Commutative Orientations                   |

University of Bonn, Bonn

2025

| September 2024  | European Autumn School in Topology 2024 (EAST), Den Dolder Title: Equivariant Homotopy Theory  |
|-----------------|--|
| September 2024  | Yatsugatake Workshop, Kobuchizawa Title: Thick Subcategories and $v_n$ -Self Maps  |
| February 2024   | WIQI, Max Planck Institute for Mathematics Title: What is a Fractured Topos?   |
| November 2023   | Young-HOM, Online Seminar Title: Fractured Structure on Condensed Anima. Video: youtube.com/watch?v=V-IOIscWim4  |
| November 2023   | Category Theory Seminar, University of Bonn Title: Kan Extensions: Kan You Extend?   |
| October 2023    | IMPRS Theme Day, Max Planck Institute for Mathematics Title: Fractured Structure on Condensed Anima.   |
| October 2023    | Homotopy Theory Seminar, University of Bonn Title: Fractured Structure on Condensed Anima.   |
| May 2023        | <b>Infinity Category Seminar</b> , <i>University of Bonn</i> Title: A Trip to Higher Topoi.  |
| April 2023      | Master Thesis Seminar, University of Bonn Title: Generalizations of Topology – Fractured Structure on Condensed Spaces.  |
| February 2023   | Seminar on Abstract Homotopy Theory, Max Planck Institute for Mathematics Title: When Homotopy Theory meets Topos Theory Amazing!                                      |
| November 2022   | Graduate Seminar on Topology: Enhancements of Triangulated Categories, Unit versity of Bonn Title: Derivators.   |
| July 2020       | <b>Project Thesis Talk</b> , Technical University of Munich Title: Tannakian Formalism.  |
| June 2020       | Advanced Seminar Course: From Homotopical Algebra towards Higher Cate gories, Technical University of Munich Title: First Steps Into the Realm of Infinity Categories. |
| December 2019   | <b>Directed Reading Program (DRP)</b> , University of Minnesota Title: On the beach of algebraic geometry.   |
|                 | Poster Presentations   |
| July 2025       | IMPRS Poster Session, MPIM Title: Multiplicative Equivariant Thom Spectra  |
| June 2024       | IMPRS Poster Session, MPIM Title: Global Equivariant Ultracommutative Orientations: An Obstruction Theory  |
| July 2023       | Young Topologists Meeting 2023 (YTM), EPFL Title: Fractured Structure on Condensed Anima   |
|                 | Conference Attendance  |
| November 2025   | NRW Topology Meeting, Bonn   |
| October 2025    | Kleine AT, Bonn  |
| September 2025  | European Autumn School in Topology, Den Dolder   |
| June, July 2025 | European Talbot, Kolding   |
| May 2025        | 35th NRW Topology Meeting, Osnabrück   |
| May 2025        | New Horizons for Equivariance in Homotopy Theory, Cambridge  |
| January 2025    | Introductory Workshop for Equivariant Homotopy Theory in Context, Cambridge  |
| November 2024   | 34th NRW Topology Meeting, Bielefeld   |
|                 |  |

| November 2024  | workshop on Unstable Homotopy Theory, Bonn                                 |
|----------------|--|
| September 2024 | European Autumn School in Topology, Den Dolder                             |
| September 2024 | Yatsugatake Workshop: Chromatic Homotopy Theory, Kobuchizawa               |
| June 2024      | Interactions between Algebra, Equivariance and Homotopy Theory, Regensburg |
| July 2023      | Young Topologists Meeting (YTM), Lausanne                                  |
| March 2023     | Masterclass on Higher Representation Theory, Copenhagen                    |
| September 2018 | TopMath Summer School, Munich  |
|                |  |

Bonn, September 23, 2025

