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

Qi Zhu

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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

2025	University of Bonn, Bonn Reading seminar in Six Functor Formalisms (joint with Kaif Hilman and Lucas Piessevaux)
2025	University of Bonn, Bonn Reading seminar in Motivic Homotopy Theory (joint with Fabio Neugebauer and Lucas 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 Tutor in Einführung in die Geometrie und Topologie
2018/19	Technical University of Munich Homework grading in <i>Analysis 1</i>
2018	Technical University of Munich Tutor in a precourse for mathematics
	Supervision
2025	Twoples , <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	Topology Seminar , <i>EPFL</i> Title: Condensed Anima as a Fractured Topos
	Selected List of Talks
January 2026	IMPRS Seminar , <i>Max Planck Institute for Mathematics</i> Title: ???
November 2025	Six Functor Formalisms Seminar , <i>Max Planck Institute for Mathematics</i> Title: Applications to Representation Theory
October 2025	Motivic Homotopy Theory Seminar , <i>Max Planck Institute for Mathematics</i> Title: Slice Filtration and <i>K</i> -Theory
October 2025	Kleine AT, Max Planck Institute for Mathematics Title: Evenness 1
September 2025	European Autumn School in Topology 2025 (EAST) , Den Dolder Title: Spectral Sequences
July 2025	European Talbot, 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	European Autumn School in Topology 2024 (EAST) , Den Dolder Title: Equivariant Highly Commutative Orientations
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 , <i>Max Planck Institute for Mathematics</i> 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 , <i>University of Bonn</i> Title: Fractured Structure on Condensed Anima.
May 2023	Infinity Category Seminar , <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 , <i>Max Planck Institute for Mathematics</i> Title: When Homotopy Theory meets Topos Theory Amazing!
November 2022	Graduate Seminar on Topology: Enhancements of Triangulated Categories , <i>University of Bonn</i> Title: Derivators.
July 2020	Project Thesis Talk , Technical University of Munich Title: Tannakian Formalism.
June 2020	Advanced Seminar Course: From Homotopical Algebra towards Higher Categories, <i>Technical University of Munich</i> Title: First Steps Into the Realm of Infinity Categories.
December 2019	Directed Reading Program (DRP) , <i>University of Minnesota</i> 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
	Academic Service
2026	Workshop Organization, Wuppertal Kleine AT on Topological Cyclic Homology TC
	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, November 8, 2025

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