

Shend Zhjeqi

Department of Mathematics, University of Michigan | 520 Church Street, Ann Arbor, MI 48109 | shendzh@umich.edu
Curriculum Vitae

EDUCATION

2022-Present Ph.D. in Mathematics, University of Michigan, Ann Arbor. Advisor: Mircea Mustață.
2018-2021 B.S. in Mathematics, University of California, Los Angeles.

RESEARCH INTERESTS

Algebraic geometry, moduli spaces, Hodge modules, and singularities.

PREPRINTS

2026 [Moduli spaces of snc klt KSBA stable pairs are naturally of log general type](#) (joint with Sebastian Casalaina-Martin). Arxiv preprint.
2026 [Foliations, Slope Stability, and Positivity of Log Canonical Bundles on Deligne-Mumford Stacks](#) (joint with Sebastian Casalaina-Martin). Arxiv preprint.
2026 [Movable curve classes and slope stability on Deligne-Mumford stacks](#) (joint with Sebastian Casalaina-Martin). Arxiv preprint.
2026 [Positivity in the context of Hodge modules and Higgs bundles on Deligne-Mumford stacks](#) (joint with Sebastian Casalaina-Martin). Arxiv preprint.

HONORS AND AWARDS

2026 Arthur H. Copeland Memorial Fellowship, University of Michigan.
2021 Sherwood Prize, UCLA Mathematics Department. Awarded annually to outstanding graduating mathematics seniors.
2020 Valentine and Hoel Memorial Award, UCLA Mathematics Department. Awarded to outstanding junior students for extraordinary achievement and potential for advancement in mathematics.
2017 Bronze Medal, International Mathematical Olympiad; second person in Kosovo's history to earn an IMO medal.
2017 Bronze Medal, Iranian Geometry Olympiad; full score, Kosovo Mathematical Kangaroo.

RESEARCH TALKS

2026 "Moduli and Positivity," National Institute of Mathematics, Academy of Sciences of Albania, Albania.
2026 "Hodge Modules and Geometry of Stacks," AMS Special Session "Riemann-Hilbert and Singularities of Algebraic Varieties," Boston College.
2026 Short Talk: "Hodge Modules and Geometry of Stacks," WAGS.

CONFERENCES AND WORKSHOPS

2026 "Summer School and Workshop on Foliations", University of Michigan.
2026 AGNES, Rutgers University.
2026 WAGS, University of California - San Diego.
2026 AMS sectional, "Riemann-Hilbert and Singularities of Algebraic Varieties," Boston College.
2025 Simons Collaboration on Moduli of Varieties.
2025 Summer Research Institute in Algebraic Geometry, Colorado State University.
2025 Spring School and Conference: Singularities in Algebraic Geometry, Henri Lebesgue Centre.
2024 Higher Du Bois and Higher Rational Singularities Workshop, American Institute of Mathematics, Pasadena, California.
2024 Moduli of Varieties Conference, University of Utah.
2024 School "Singularities in Ann Arbor," University of Michigan.
2024 School on Hodge Theory and Cohomological Jump Loci, University of Stockholm.
2024 Winter School "Mixed Hodge Modules," Simons Center for Geometry and Physics.
2024 Fifth Latin American School of Algebraic Geometry (ELGA V), IMPA.
2023 Summer School "FRG Special Month in Ann Arbor," University of Michigan.

TEACHING, MENTORING, AND OUTREACH

2022-2026	Graduate Student Instructor, University of Michigan: Calculus I and Calculus II.
2023	Invited instructor, number theory, Kosovo EGMO team.
2019-2023	Helped organize and run five high school mathematics olympiads in Kosovo and Albania.
2019-2021	Lead, Olympiad Group, Olga Radko Math Circle, UCLA.
2019-2021	Invited instructor, number theory, Kosovo IMO team.

UNDERGRADUATE RESEARCH EXPERIENCE

2021	Research Experience for Undergraduates in algebraic geometry, supervised by Fumiaki Suzuki, UCLA.
2020	Research Experience for Undergraduates in algebraic geometry, supervised by Professor David Gieseker, UCLA.

SEMINAR TALKS AT THE UNIVERSITY OF MICHIGAN

2026	"Universal CH ₀ , Rationality, and Algebraic Cycles," Learning Seminar, University of Michigan.
2026	"Super Math," Learning Seminar, University of Michigan.
2025	"Lefschetz Fibrations, Limit Mixed Hodge Structures, and Computations," Student Seminar, University of Michigan.
2025	"Stacky Resolution of Singularities," Learning Seminar, University of Michigan.
2025	"Archimedean Zeta Functions, Singularities, and Hodge Theory," Preprint Seminar, University of Michigan.
2025	"KSBA Moduli, Part 2," Student Seminar, University of Michigan.
2024	"Generic Vanishing Theorem of Green and Lazarsfeld," Topics Seminar, University of Michigan.
2024	"Deformation Theory: Versal Deformations and Algebraization," Learning Seminar, University of Michigan.
2024	"Multiplier Ideals and Applications," Student Seminar, University of Michigan.
2023	"Characteristic p Techniques and Vanishing Theorems," Student Seminar, University of Michigan.
2023	"K-Stability Learning Seminar: Test Configurations and Futaki Invariant," Learning Seminar, University of Michigan.
2022	"Bend and Break," Student Seminar, University of Michigan.
2022	"Galois and Etale Cohomology," Learning Seminar, University of Michigan.
2022	Minicourse: "Curves on an Algebraic Surface," University of Michigan.