Anish Chedalavada

Curriculum Vitae

Johns Hopkins University | Baltimore, Maryland | achedal1@jh.edu | aragogh.github.io

Education

Johns Hopkins University — Baltimore, MD
PhD in Mathematics — *Aug 2023–Jun 2026 (Expected)*
Advisor: David Gepner
Thesis title (tentative): Towards the derived geometry of 2-rings and applications.

University of Illinois at Chicago — Chicago, IL
Masters in Mathematics — *Aug 2020–June 2023*

University of California, Los Angeles — Los Angeles, CA
Bachelor of Science in Mathematics — *Sep 2016–Jul 2020*

Research Experience

Max Planck Institute for Mathematics — Bonn, Germany
Research Visitor — *TBD*
Host: Tobias Barthel

American Institute of Mathematics — Pasadena, CA
Participant, Workshop on p-Adic Geometry and Chromatic Homotopy Theory — *Dec 2–6, 2024*

Max Planck Institute for Mathematics — Bonn, Germany
Research Visitor — *Apr 1–May 31, 2024*
Host: Tobias Barthel

Mathematische Forschungsinstitut Oberwolfach — Oberwolfach, Germany
Participant/Speaker at MFO Workshop 2338a — *Sep 17–Sep 22, 2023*
Workshop title: Program on Tensor-Triangular Geometry and Interactions
Talk title: A derived refinement of a classical theorem in tt-geometry.
Served as designated reporter, report available at: https://publications.mfo.de/handle/mfo/4102.

Hausdorff Research Institute for Mathematics — Bonn, Germany
Participant, Program on Spectral Methods in Algebra, Geometry, and Topology — *Fall Trimester, 2022*
Workshops Attended:

1. Summer School: Spectral methods in algebra, geometry, and topology (Sep 19–23)
2. Spectral methods in equivariant mathematics (Oct 24–28)
3. Spectra, triangles, and higher structures (Dec 5–9)

MSRI Séminaire de Mathématiques Supérieures — Vancouver, Canada
Participant, Summer School on Floer Homotopy Theory — *Jul 11–Jul 22, 2022*

Preprints

1. Ko Aoki, Tobias Barthel, Anish Chedalavada, Tomer Schlank, and Greg Stevenson. *Higher Zariski Geometry.* 2025. arXiv:2508.11621 [math.AG].
2. Anish Chedalavada. *Affineness and reconstruction in higher Zariski geometry.* Draft. Hosted at https://aragogh.github.io/Derived_Reconstruction.pdf.
3. Anish Chedalavada. *Torsion-free endotrivial modules via homotopy theory.* In preparation.
4. Maxine Calle, David Chan, Andres Mejia, and Anish Chedalavada. *A splitting of the assembly map for the equivariant K-theory of spaces.* In preparation.
5. Anish Chedalavada and Maxime Ramzi. *Separable algebras over the L_n-local sphere.* In preparation.

Seminar and Conference Organization

AMTRaK Joint Seminars at Johns Hopkins, UPenn, and UVA
Organizer alongside Maxine Calle and Ben Spitz *Sep 2024, Nov 2024, Feb 2025*
Core responsibilities: Secures and manages funding for food and travel, books accomodation, books venues, invites speakers, devises pre-talk syllabus.
Website: `https://web.sas.upenn.edu/callem/amtrak/`

JHU Topics in E-Theory Seminar Baltimore, MD
Organizer *Spring 2024*
Website: `https://aragogh.github.io/ESeminar.html`

UIC Graduate Geometry/Topology Seminar Chicago, IL
Organizer *Fall 2021, Spring 2022*
Website: `https://aragogh.github.io/GTSem.html`

Service

Maryland Launch Years Task Force Chicago, IL
Mock course design *Fall 2025*
Core responsibilities: Building mock course materials for a proposed high school mathematics requirement known as "Integrated Mathematics", which blends geometry, algebra, and applied mathematical methods.

UIC Math Graduate Student Association Chicago, IL
Co-president *2021–2022*
Core responsibilities: Coordinates social events, serves as liaison between department head and graduate student body, manages graduate student lounge amenities.

Seminar/Conference Talks Given

1. *Higher Zariski Geometry*, Spectrums in Representation Theory of Algebras and Related Topics, Osaka Metropolitan University, December 2025 (*upcoming*).
2. *Higher Zariski Geometry*, New Directions in Group Theory and Triangulated Categories, 127th Meeting. Recording available at `https://www.youtube.com/watch?v=cO9BjhM3OAk`.
3. *Geometries, tensor-triangular geometry, and the reconstruction of schemes*, UChicago Topology Seminar, Spring 2025.
4. *A derived refinement of a classical reconstruction theorem in tt-geometry (with applications to modular representation theory)*, Wayne State Topology Seminar, Spring 2025.
5. *A derived refinement of a classical reconstruction theorem in tt-geometry*, Bonn Topology Oberseminar, Spring Trimester 2024.
6. *A derived refinement of a classical reconstruction theorem in tt-geometry*, UCLA Algebra Seminar, Fall 2023.
7. *A derived refinement of a classical reconstruction theorem in tt-geometry*, Mathematisches Forschungsinstitut Oberwolfach, Workshop 2338a, Fall 2023.

Teaching Experience

Instructor of Record
Johns Hopkins University
1. AS 110.113 Honors One Variable Calculus *Fall 2025*
2. AS 110.225 Putnam Preparation Course *Fall 2024*

Teaching Assistant
Johns Hopkins University
1. AS 110.107 Calculus II for Life Sciences *Fall 2023*
2. AS 110.616 Grader, Graduate Algebraic Topology *Fall 2023*

Instructor of Record
University of Illinois, Chicago
1. Math 109 College Algebra Workshop *Fall 2021*
2. Math 090 Intermediate Algebra *Summer 2021*

Teaching Assistant
University of Illinois, Chicago

1. Math 181 Calculus II *Fall 2020, Spring 2022*
2. Math 125 Linear Algebra for Business *Spring 2021*
3. Math 121 Precalculus *Spring 2023*
4. Math 160 Linear Algebra for Business *Spring 2023*

1 Skills Summary

Programming: LaTeX, Python, C++, Nix
Languages: English, French (Intermediate), Telugu, Hindi