

Aaron Anderson

Curriculum Vitae

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Employment

2024– **Hans Rademacher Instructor (Postdoc)**, *University of Pennsylvania*, Philadelphia, PA.

Education

2018–2024 **Ph.D. Mathematics**, *University of California, Los Angeles*, Los Angeles, CA.

Winter/Spring 2023 **Chateaubriand Fellow**, *Université Claude Bernard Lyon 1*, Villeurbanne, France.

2018–2020 **M.A. Mathematics**, *University of California, Los Angeles*, Los Angeles, CA.

2014–2018 **B.S. Mathematics**, *California Institute of Technology*, Pasadena, CA, GPA: 4.0/4.3.

Awards and Fellowships

June 2024 **Pacific Journal of Mathematics Dissertation Prize.**

2023–2024 **Dissertation Year Fellowship.**

Spring 2023 **Chateaubriand Fellowship.**

Oct. 2017 **Semifinalist in Doris S. Perpall Speaking Competition.**

Summer 2017 **Rose Hills Foundation SURF Fellow.**

2014–2016 **Putnam Exam**, Highest Score: 39, Rank 172. On Caltech Putnam Team in 2015..

Papers

In preparation **Examples and Nonexamples of Distal Metric Structures**, with Itai Ben Yaacov.

Preprint 2025 **From Learnable Objects to Learnable Random Objects**, with Michael Benedikt.
arXiv:2504.00847

Preprint 2023 **Generically Stable Measures and Distal Regularity in Continuous Logic.**
arXiv:2310.06787

Accepted 2024 **NIP and Distal Metric Structures**, *Israel Journal of Mathematics*.
arXiv:2310.04393

Accepted 2023 **Combinatorial Bounds in Distal Structures**, *Journal of Symbolic Logic*.
arXiv:2104.07769

Preprint 2021 **The Fraïssé limit of matrix algebras with the rank metric.**
arXiv:1712.04431

Seminar and Conference Presentations

- 5/2025 **ASL North American Meeting**, *New Mexico State University*, Las Cruces, NM.
- 5/2025 **Iowa Colloquium on Information, Complexity, and Logic**, online.
- 4/2025 **Northeast Model Theory Day**, *Towson University*, Towson, MD.
- 3/2025 **Logic Seminar**, *Rutgers University*, Piscataway, NJ.
- 3/2025 **Logic Workshop**, *NY Logic*, New York, NY.
- 2/2025 **Mathematical Logic Seminar**, *Iowa State University*, online.
- 4/2024 **PKU Model Theory Seminar**, *Peking University*, online.
- 3/2024 **South Eastern Logic Symposium (SEALS)**, *University of Florida*, Gainesville, Florida.
- 1/2024 **Logic Seminar**, *University of Maryland*, College Park, Maryland.
- 1/2024 **Model Theory and Applications Seminar**, *Purdue University*, West Lafayette, Indiana.
- 1/2024 **Logic Seminar**, *University of Illinois, Chicago*, Chicago, Illinois.
- 11/2023 **Logic & Set Theory Seminar**, *UC Irvine*, Irvine, California.
- 11/2023 **Southern California Discrete Math (Poster Session)**, *Cal State LA*, Los Angeles, California.
- 5/2023 **Logic Seminar**, *Kurt Gödel Logic Center*, Vienna, Austria.
- 3/2023 **Séminaire Logique de Lyon**, *Institut Camille Jordan*, Villeurbanne, France.
- 4/2022 **Joint Mathematics Meetings**, online.
- 3/2022 **AMS Spring Central**, online.
- 3/2021 **Graduate Student Conference in Logic XXII**, *UIUC*, online.
- 5/2020 **Short Model Theory Huddle (SMTH)**, online.
- 12/2017 **Caltech Logic Seminar**, *Caltech*, Pasadena, CA.
- 10/2017 **Caltech SURF Program**, *Caltech*, Pasadena, CA, Qualified for semifinals of the speaking competition..

Teaching and Outreach

- 2024– **Hans Rademacher Instructor**, *University of Pennsylvania*.
Classes such as Calculus (Math 1300, 1400) and Complex Analysis (Math 4100)
- Summer **Mentor**, *Canada/USA Mathcamp*.
- 2021, 2022 Taught classes at a residential summer program for high school students
- Fall 2020 **Mentor**, *UCLA Directed Reading Program*.
Mentored an undergraduate in algebraic combinatorics
- 2018–2024 **Instructor**, *Los Angeles Math Circle*.
- 2018–2022 **Graduate TA**, *UCLA*.
Classes such as Linear Algebra, Graph Theory, Probability, and History of Math
- Fall 2017 **TA for Ma/CS 6a: Discrete Math**, *Caltech*.
- 2014–2017 **Treasurer, Secretary**, *Caltech Harvey Mudd Math Competition*.

Miscellaneous

2022 – **Reviewer**, *mathlib*.
Formalizing math with the Lean Theorem Prover