

Andy Eisenberg

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Education

Tufts University. Ph.D., Mathematics.
May 2015. Advisor: Kim Ruane
Tufts University. M.S., Mathematics.
August 2010.
University of Chicago. B.S., Mathematics.
University of Chicago. B.A., Philosophy.
June 2008.

Appointments

Assistant Professor of Instruction, Temple University. 2019–present.
Visiting Assistant Professor, St. Louis University. 2018–2019.
Visiting Assistant Professor, Oklahoma State University. 2015–2018.

Courses Taught

Calculus I, Calculus II, Calculus III, Differential Equations, Linear Algebra, Basic Concepts of Math, Probability Theory, Introduction to Probability and Statistics for the Life Sciences, Introduction to Finite Mathematics, Discrete Mathematics, CST First Year Seminar.

Research Interests

My research is in combinatorial and geometric group theory, focusing on geometry and algorithms in infinite discrete groups.

Papers

Andy Eisenberg, Adam Piggott. “Gilman’s Conjecture.” *Journal of Algebra*, 517 (2019), 167–185.
Charles Cunningham, Andy Eisenberg, Adam Piggott, and Kim Ruane. “CAT(0) Extensions of Right-Angled Coxeter Groups.” *Topology Proceedings*, 48 (2016), 277–287.
Charles Cunningham, Andy Eisenberg, Adam Piggott, and Kim Ruane. “Recognizing Right-angled Coxeter Groups Using Involutions.” *Pacific Journal of Mathematics*, 284 (2016), no. 1, 41–77.

Undergraduate Research Projects Supervised

Fall 2024–Spring 2025. “Non-Markovianity of Chord Transitions.” Sam Berman.

Fall 2022–Spring 2023. “Math in Music.” Christopher Heitmann.

Fall 2022–Spring 2023. “Gambling with Uncertainty.” Gonghui Lin.

Fall 2022. “Mann’s Theorem.” Tierney Porfirio.

Talks

April 22, 2019. Bi-college Colloquium at Haverford College. “Rewriting Systems and Gilman’s Conjecture.”

October 16, 2018. Geometry and Topology Seminar at St. Louis University. “A Proof of Gilman’s Conjecture.”

October 9, 2018. Geometry and Topology Seminar at St. Louis University. “Rewriting Systems and Gilman’s Conjecture.”

April 25, 2018. Geometry and Topology Seminar at the University of Oklahoma. “A Characterization of Plain Groups via Rewriting Systems.”

February 13, 2018. Topology Seminar at Oklahoma State University. “Rewriting Systems and Gilman’s Conjecture.”

August 30, 2017. Topology Seminar at Oklahoma State University. “CAT(0) Extensions of Right-angled Coxeter Groups.”

September 24, 2016. AMS Special Session on Geometric Group Theory. “Right-angled Coxeter Group Recognition and Decomposition.”

September 15, 2016. Topology Seminar at Oklahoma State University. “Lines in Asymptotic Cones of Hyperbolic Groups.”

March 12, 2016. Spring Topology and Dynamics Conference. “Lines in the Asymptotic Cone.”

October 3, 2015. Redbud Topology Conference. “Recognizing Right-angled Coxeter Groups.”

September 11, 2015. Colloquium at Oklahoma State University. “Recognizing Right-angled Coxeter Groups.”

September 30, 2014. Geometric Group Theory and Topology Seminar at Tufts. “Recognizing Right-angled Coxeter Groups.”

June 13, 2014. Topology Students Workshop. “Recognizing Right-angled Coxeter Groups.”

March 13, 2014. Spring Topology and Dynamics Conference. “Quasi-isometries of $H \times \mathbb{E}$.”

Other Experience

Fall 2025–present. Faculty Accessibility Liaison for CST.

Fall 2025–present. Member of the TAUP Committee on Political Endorsements.

Spring 2025–present. Member of the TAUP PIRC Constituency Council.

Fall 2022–present. Member of the Undergraduate Research in Mathematics Committee.

Spring 2021–present. Faculty advisor of the Temple Math Club.

Spring 2025. Member of the departmental NTT hiring committee.