

Tom Gannon
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EDUCATION AND EMPLOYMENT	University of California, Riverside	
	• Assistant Professor	Fall 2025 - Present
	University of California, Los Angeles	
	• Hedrick Adjunct Assistant Professor • Supervisor: Raphaël Rouquier	Fall 2022 - Summer 2025
	University of Texas at Austin	
	• Ph.D. - Mathematics • Advisor: Sam Raskin • Thesis: <i>Categorical Representation Theory and the Coarse Quotient</i>	Fall 2016 - Summer 2022
	Michigan State University	
	• B.A. - Dual Major in Advanced Mathematics and Accounting • Computer Science Minor	Fall 2012 - Spring 2016
PUBLICATIONS	• Terminal Singularities of the Affine Closure of $T^*(\mathrm{SL}_n/[P, P])$ - Appendix (with N. Grantcharov) <i>Submitted.</i> • Crepant partial resolutions of the nilpotent cone via Hamiltonian reduction (with G. Bellamy) <i>Submitted.</i> • The coordinate ring of the universal centralizer via Demazure operators (with V. Ginzburg) <i>Submitted.</i> • Functoriality of Coulomb branches (with B. Webster) <i>Submitted.</i> • Quantization of the universal centralizer and central D-modules (with V. Ginzburg) <i>Submitted.</i> • The cotangent bundle of G/U_P and Kostant-Whittaker descent <i>International Mathematics Research Notices</i> - 2026. • Differential operators on the base affine space of SL_n and quantized Coulomb branches (with H. Williams) <i>International Mathematics Research Notices</i> - 2026. • Proof of the Ginzburg-Kazhdan conjecture <i>Advances in Mathematics</i> - 2024. • Classification of nondegenerate G-categories <i>Journal für die reine und angewandte Mathematik (Crelle's journal)</i> - To appear. • The universal category $\mathcal{O}$ and the Gelfand-Graev action <i>Selecta Mathematica</i> - 2026. • The coarse quotient for affine Weyl groups and pseudo-reflection groups <i>Transformation Groups</i> - 2025.	
	Undergraduate Publications	
	• New results about semipositive matrices (with J. Dorsey, C. Johnson, and M. Turnansky) <i>Czechoslovak Mathematical Journal</i> - 2016. • Linear preservers of semipositive matrices (with J. Dorsey, N. Jacobson, C. Johnson, and M. Turnansky) <i>Journal of Linear and Multilinear Algebra</i> - 2016.	
RESEARCH SEMINARS AND CONFERENCES	• SLMath Workshop: Geometric Representation Theory and 3d Mirror Symmetry • UC Davis Algebraic Geometry • SLMath Pathways Workshop: Representation Theory Under the Influence of Quantum Field Theory • Coulomb branches and affine quantum groups conference - Centre International de Rencontres Mathématiques • Claremont McKenna Algebra, Number Theory, and Combinatorics • UCSB Topology Seminar • UC Berkeley Informal String-Math Seminar • Northeastern Workshop on Categorification and Symplectic Duality • UC Riverside Colloquium • Wake Forest Colloquium	- Fall 2026* - Fall 2026 - Fall 2026 - Summer 2026 - Spring 2026 - Spring 2026 - Fall 2025 - Summer 2025 - Spring 2025 - Spring 2025

	Organizer - AMS Sectional Special Session (Riverside)	Fall 2024
	Organizer - Los Angeles Workshop on Representations and Geometry (LAWRGe)	Summer 2024
	Teaching Assistant - U of O Workshop on Algebra and Representation Theory	Summer 2023
	Math Fellow (Postdoc) Mentorship	
	• Ruoxi Li	Fall 2026 - Summer 2029*
	Reading Courses	
	• Oliver Waite • Max Steinberg (UCLA)	Winter 2026 Spring 2023
PEER REVIEW	Referee Work	
	• <i>Journal of the European Mathematical Society</i> • <i>Annales Scientifiques de l'Ecole Normale Supérieure</i> • <i>Compositio</i> • <i>Representation Theory</i> (AMS) • <i>Forum of Mathematics, Sigma</i> • <i>Annals of Representation Theory</i> • <i>International Mathematics Research Notices</i>	
	Quick Opinion	
	• <i>Journal of the European Mathematical Society</i> • <i>Annales Scientifiques de l'Ecole Normale Supérieure</i> • <i>Selecta</i> • <i>Compositio</i> • <i>Proceedings of the London Mathematical Society</i> • <i>Representation Theory</i> • <i>Journal of the London Mathematical Society</i> • <i>Geometric And Functional Analysis</i> • <i>Banff International Research Station</i>	
OUTREACH	UCLA Math Circle - Deputy Director	Fall 2023 - Summer 2025
	• Co-director of program for over 400 students in grades K-12 designed to teach accessible introductory topics in theoretical math • Co-developed new courses for advanced high school students in probability, game theory, and basics of algebraic geometry • Regularly taught Sunday classes to students in grades K-12 • Administered American Mathematics Competition, Math Kangaroo, AIME, Bay Area Math Olympiad, USAMO	
	Sunday Morning Math Group - Coordinator	Fall 2018 - Fall 2020
	• Coordinated logistics related to mathematics outreach program • Led marketing campaign to increase awareness of biweekly outreach event • Boosted attendance from 20 students per session to 100 students per session • Received 'Featured Event' status on popular Austin website Do512 • Advised mathematics faculty and graduate students on teaching young students • Administered American Mathematics Competition	
	UTeach	Summer 2020 - Summer 2021
	• Co-organized math department efforts to pair graduate student volunteers with local schools in need of additional assistance during COVID-19 pandemic • Acted as supplemental instructor for an AP Calculus class at Lehman High School • Organized exhibit for Lehman STEM Fair	
	Outreach Math Talks	Fall 2016 - Present
	• Regular speaker at UT Undergraduate Math Club, Sunday Morning Math Group and other locations • Spoke on panels regarding topics such as applying to graduate school and REUs	
	Blogging	
	• How to Run a Math Group - <i>Notices of the AMS</i> • What Is... A Scheme? - <i>Notices of the AMS</i> • Contributor to <i>AMS Blogs</i>	Fall 2021 Fall 2017 Spring 2017 - Fall 2018