Terrence George

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RESEARCH INTERESTS	Algebraic combinatorics, statistical mechanics, integrable systems.	
EDUCATION	**Brown University** PhD in Mathematics Advisor: Richard Kenyon	2015-2020
	Indian Institute of Science BS in Mathematics and Physics Advisor: Manjunath Krishnapur	2011-2025
POSITIONS	**University of California, Los Angeles** Hedrick Assistant Adjunct Professor Mentor: Pavel Galashin	2023-present
	University of Michigan Postdoctoral Assistant Professor Mentor: David Speyer	2020-2023
	Yale University Visiting Assistant in Research	2019-2020
GRANTS AND FELLOWSHIPS	AMS–Simons Travel Grant DAAD WISE summer fellowship KVPY fellowship	2023-2026 2014 2011-2015

PUBLICATIONS

- Move-reduced graphs on a torus (with Pavel Galashin)
  Trans. Amer. Math. Soc. (2024).

- The twist for electrical networks and the inverse problem
  Int. Math. Res. Not. IMRN (2024).

- Spectra of biperiodic planar networks
  Comm. Math. Phys. (2024).

- The inverse spectral map for dimers (with Alexander Goncharov and Richard Kenyon)
  Math. Phys. Anal. Geom. (2023).

- Discrete dynamics in cluster integrable systems from geometric R-matrix transformations (with Sanjay Ramassamy)
  Comb. Theory (2023).

- The cluster modular group of the dimer model (with Giovanni Inchiostro)
  Ann. Inst. Henri Poincaré Comb. Phys. Interact. (2023).

- Grove arctic curves from periodic cluster modular transformations
  Int. Math. Res. Not. IMRN (2021).

PREPRINTS

- Spectral transform for the Ising model
  arXiv:2402.07413.

- Integrable dynamics in projective geometry via dimers and triple crossing diagram maps on the cylinder (with Niklas Affolter and Sanjay Ramassamy)
  arXiv:2108.12692.

- Dimers and Beauville integrable systems (with Giovanni Inchiostro)
  arXiv:2207.09528.

- Electrical networks and Lagrangian Grassmannians (with Sunita Chepuri and David Speyer)
  arXiv:2106.15418.

TALKS

- Conference: Discrete Differential Geometry and Dimers, Berlin   2024
- Workshop I: Statistical Mechanics and Discrete Geometry, IPAM   2024
- Geometry, Statistical Mechanics, and Integrability Tutorials, IPAM   2024
- Combinatorics Forum, UCLA   2023
- Discrete Differential Geometry Seminar, TU Berlin   2023
- Dimers2023: DIMERS ANR final conference, Sorbonne   2023
- Algebra and Combinatorics seminar, Indian Institute of Science   2023
- Banff International Research Station workshop: Analytic and Probabilistic Combinatorics   2022
- Seminar, Tata Institute of Fundamental Research-CAM   2022
- Colloquium, Indian Statistical Institute, Bangalore   2022
- Conference: Combinatorial algebraic geometry-real and tropical, ICTS   2022
- Integrable Probability seminar, MIT   2022
- Joint Math Meetings: Combinatorial applications of computational geometry and algebraic topology   2022
- Combinatorics seminar, University of Minnesota   2022
- Combinatorics seminar, UCLA   2021
- Random Matrix Theory seminar, KTH Royal Institute of Technology   2021
- Combinatorics seminar, University of Michigan   2021
- Algebraic and Enumerative Combinatorics seminar, University of Waterloo 2021
- Clusters and Geometry seminar, Yale University   2021
- Oberwolfach Mini-Workshop: Dimers, Ising and Spanning Trees beyond the Critical Isoradial Case   2020
- Combinatorics seminar, University of Michigan   2020
- Probability seminar, Cornell University   2020
- Combinatorics seminar, Dartmouth College   2020
- Combinatorics seminar, University of Michigan   2019
- Integrable Probability seminar, Columbia University   2019
- Combinatorics seminar, Yale University   2019
- Algebra and Combinatorics seminar, Indian Institute of Science   2019
- Conference: Universality in random structures: Interfaces, matrices, sandpiles, ICTS   2019

- Seminar, Indian Institute of Science   2018
- Bangalore probability seminar, Indian Statistical Institute, Bangalore   2018
- Discrete math seminar, Brown University   2018

TEACHING

University of California, Los Angeles

Math 180: Graph Theory	Winter 2024
Math 61: Introduction to Discrete Structures	Winter 2024
Math 218A: Probabilistic Method	Fall 2023
Math 180: Graph Theory	Fall 2023

University of Michigan

Math 465: Introduction to Combinatorics (two sections)	Winter 2023
Math 115: Calculus I (two sections)	Fall 2022
Math 465: Introduction to Combinatorics (two sections)	Winter 2022
Math 115: Calculus I (two sections)	Fall 2021
Math 465: Introduction to Combinatorics (two sections)	Winter 2021
Math 115: Calculus I (two sections)	Fall 2020

Brown University

Math 90: Introductory Calculus I	Fall 2018
Math 200: Intermediate Calculus (Teaching Assistant)	Fall 2017
Math 200: Intermediate Calculus (Teaching Assistant)	Spring 2017
Math 100: Introductory Calculus I (Teaching Assistant)	Fall 2016

MENTORING

University of Michigan Math 399: Independent study
Chang Wang, Graph theory.

Brown University Directed Reading program
Jackson Markey, Enumerative geometry and string theory.

SERVICE

Organization

Perfectly matched perspectives on statistical mechanics, combinatorics and geometry: a conference in honor of Richard Kenyon's 61st birthday	2025
UCLA Combinatorics Forum	2023-present
Southern California Discrete Mathematics Symposium (SoCalDM)	2024
University of Michigan Combinatorics Learning Seminar	2022-2023
Brown University Discrete Mathematics Seminar	2018-2019

Refereeing

Algebraic Combinatorics, Annales Henri Lebesgue, Combinatorial Theory, Communications of the AMS, Electronic Journal of Combinatorics, FPSAC, OPAC, Probability and Mathematical Physics, Selecta Mathematica, Transactions of the AMS