

# Terrence George

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## RESEARCH INTERESTS

Algebraic combinatorics, statistical mechanics, integrable systems.

## EDUCATION

**Brown University** 2015-2020  
PhD in Mathematics  
Advisor: Richard Kenyon

**Indian Institute of Science** 2011-2025  
BS in Mathematics and Physics (GPA: 7.2/8)  
Advisor: Manjunath Krishnapur

## POSITIONS

**University of California, Los Angeles** 2023-present  
Hedrick Assistant Adjunct Professor  
Mentor: Pavel Galashin

**University of Michigan** 2020-2023  
Postdoctoral Assistant Professor  
Mentor: David Speyer

**Yale University** 2019-2020  
Visiting Assistant in Research

## PUBLICATIONS

- Integrable dynamics in projective geometry via dimers and triple crossing diagram maps on the cylinder (with Niklas Affolter and Sanjay Ramassamy)  
**SIGMA Symmetry Integrability Geom. Methods Appl.** (to appear).
- Spectral transform for the Ising model  
**Ann. Henri Poincaré** (2025).
- Electrical networks and Lagrangian Grassmannians (with Sunita Chepuri and David Speyer)  
**Ann. Inst. Henri Poincaré Comb. Phys. Interact.** (2025).
- 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

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

## GRANTS AND FELLOWSHIPS

AMS–Simons Travel Grant	2023-2026
DAAD WISE summer fellowship	2014
KVPY fellowship	2011-2015

## TALKS

- Information, Geometry and Physics seminar, Caltech 2025
- 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 Mathematics seminar, Brown University 2018

## TEACHING

### University of California, Los Angeles

Math 206A: Topics in Combinatorics	Spring 2025
Math 184: Enumerative Combinatorics	Spring 2025
Math 32B: Calculus of Several Variables	Winter 2025
Math 32B: Calculus of Several Variables	Fall 2024
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, Canadian Journal of Mathematics, Combinatorial Theory, Communications of the AMS, Electronic Journal of Combinatorics, FPSAC, OPAC, Probability and Mathematical Physics, Selecta Mathematica, Transactions of the AMS