GTA: Philadelphia 2024
Conference Schedule

Held May 31—June 2 2024

Temple University—Science Education and Research Center (SERC),
1925 N 12th St, Philadelphia, PA 19122

Abstracts for student talks are available at https://math.temple.edu/events/conferences/gscagt/talks.

Friday, May 31

12:00-2:00	Registration SERC Lobby			
2:00-2:05	Opening Remarks SERC Room 116			
2:05-3:05	Plenary Talk A Gentle Introduction to Superrigidity *Nick Miller, University of Oklahoma* SERC Room 116			
3:05-3:30	Coffee/Tea Break SERC Lobby			
	SERC Room 110A	SERC Room 110B	SERC Room 116	SERC Room 108A
3:30-4:00	Twisted Number Field Counting* *Shilpi Mandal* *Emory University*	Deformation Spaces of Geometric Structures* *Gabe Lumpkin* *George Mason University*	What Is an Alternating Link?* *Susan Rutter* *CUNY Graduate Center*	Stability of Convex Spheres *Hunter Stufflebeam* *University of Pennsylvania*
4:15-4:45	An Analogue of Greenberg Conjecture for CM fields *Peikai Qi* *Michigan State University*	Large-Scale Geometry of Pure Mapping Class Groups of Infinite-Type Surfaces *Thomas Hill* *University of Utah*	Sharpness in Symplectic Topology *Spencer Cattalani* *Stony Brook University*	Realizing Pairs of Multicurves as Cylinders on Translation Surfaces *Juliet Aygun* *Cornell University*

*Expository Talk

Saturday, June 1

9:00-9:30	Breakfast and Registration SERC Lobby			
9:30-9:35	Announcements SERC Room 116			
9:35-10:35	Plenary Talk Morse Theory on a Point and a Stack of Broken Lines *Hiro Lee Tanaka, Texas State University* SERC Room 116			
10:35-11:00	Coffee/Tea Break SERC Lobby			
	SERC Room 110A	SERC Room 110B	SERC Room 116	SERC Room 108A
11:00-11:30	Simplicial Volume Entropy of Iwahori Subgroups *Malachi Alexander* *UC Santa Cruz*	Dehn Functions* *Eleanor Rhoads* *Wesleyan University*	Hochschild Homology of the Legendrian Contact DGA *Alexander Simons* *UC Davis*	Flexing and Branched Bending *Casandra Monroe* *UT Austin*
11:45-12:15	Hyperbolic Groupoids with Totally Disconnected Unit Spaces and Their Associated Semigroups *Josiah Owens* *Texas A&M University*	A Long Exact Sequence on the Composition of Dehn Twists *Shuo Zhang* *University of Minnesota*	Using Quandle Invariants to Distinguish Classical and Legendrian Knots* *Peyton Wood* *UC Davis*	Half-Spaces & Einstein's Universe *Pier-Olivier Rodrigue* *George Mason University*
12:30-1:00	Interpolation in the Weighted Projective Space *Shahriyar Roshan-Zamir* *University of Nebraska*	On The Space of Holomorphic Differentials *Margarita Bustos Gonzalez* *University of Iowa*	Symplectic Billiard Table Evolution *Lael Costa* *Penn State University*	A Foliation on the Space of Framed Hyperbolic 3-Manifolds *Matthew Zevenbergen* *Boston College*
1:00-2:15	Lunch Break SERC Lobby			
2:15-3:15	Panel Discussion Career Building and Social Responsibility in Academia and Beyond *Evelyn Lamb* *Michelle Lee* *Adriana Salerno* SERC Room 116			
3:15-3:30	Coffee/Tea Break SERC Lobby			
3:30-4:30	Plenary Talk ℂomplex Dynamics: the ℝeal Story *Sarah Koch, University of Michigan* SERC Room 116			
4:30-5:00	Coffee/Tea Break SERC Lobby			
5:00-5:30	Special Session NSF Funding Q&A *Adriana Salerno, NSF Program Director* SERC Room 116			
6:30-9:00	Banquet Nam Phuong – 1100 Washington Ave, Philadelphia, PA 19147			

*Expository Talk

Sunday, June 2

9:00-9:30	Breakfast SERC Lobby				
9:30-9:35	Announcements SERC Room 116				
9:35-10:35	Plenary Talk Interpolation Problems for Curves *Isabel Vogt, Brown University* SERC Room 116				
10:35-11:00	Coffee/Tea Break SERC Lobby				
	SERC Room 110A	SERC Room 110B	SERC Room 116	SERC Room 108A	SERC Room 108B
11:00-11:30	Elliptic Curves, Modular Forms, and Modularity Theorems* *Xiaoyu Huang* *CUNY Graduate Center*	Arithmeticity, Bounded Distance, and Coarse Geometry—All About Quasi-isometric Rigidity* *Yushan Jiang* *CUNY Graduate Center*	Topological Obstructions to the Existence of a Resolution of the Singularities of a Variety Over a Field of Any Characteristic *James Myer* *CUNY Graduate Center*	Orientation-Preserving Homeomorphisms of Euclidean Space Are Commutators *Megha Bhat* *CUNY Graduate Center*	Categorization of Finite Field Polygons, and Why Graph Arguments Are Cooler than Algebra Ones *Amanda Tran* *Tufts University*
11:45-12:15	Admissibility over Number Fields *Deependra Singh* *University of Pennsylvania*	Equivariant Trees and Partition Complexes *Maxine Calle* *University of Pennsylvania*	Juggling Virtual Braids and Links *Ivy Stump* *Davidson College*	Contractibility of Teichmüller Space* *Chaitanya Tappu* *Cornell University*	
12:30-1:00	Integral Points on Varieties with Infinite Etale Fundamental Groups *Niven Achenjang* *MIT*	Random Walk on Ramanujan Graphs* *Amin Idelhaj* *University of Wisconsin*	Profinite Rigidity* *Zihao Liu* *Rice University*	The Hot Spots Conjecture with Mixed Boundary Conditions *Lawford Hatcher* *Indiana University*	
1:00-2:30	Lunch SERC Lobby				

*Expository Talk