Summer Conferences, 2008 – 2022

2008

- *Teichmüller Theory and Low-Dimensional Topology*, June 14–20, 2008. Organizers: **Francis Bonahon**, University of Southern California; **Howard Masur**, University of Illinois at Chicago; **Abigail Thompson**, University of California at Davis; and **Genevieve Walsh**, Tufts University.
- *Scientific Computing and Advanced Computation*, June 21–27, 2008. Organizers: **John Bell**, Lawrence Berkeley National Laboratory; **Randall LeVeque**, University of Washington; **Juan Meza**, Lawrence Berkeley National Laboratory.
- *Computational Algebra and Convexity*, June 21–27, 2008. Organizers: **Henry Schenck**, University of Illinois at Urbana-Champaign; **Michael Stillman**, Cornell University; **Jan Verschelde**, University of Illinois at Chicago.

2009

- *Mathematical Challenges of Relativity*, June 13-19, 2009. Organizers: **Mihalis Dafermos**, University of Cambridge; **Alexandru Ionescu**, University of Wisconsin, Madison; **Sergiu Klainerman**, Princeton University; **Richard Schoen**, Stanford University.
- *Inverse Problems*, June 20-26, 2009. Organizers: **Guillaume Bal**, Columbia University; **Allan Greenleaf,** University of Rochester; **Todd Quinto**, Tufts University; **Gunther Uhlmann**, University of Washington
- *Modern Markov Chains and their Statistical Applications*, June 27-July 3, 2009. Organizers: **Persi Diaconis**, Stanford University; **Jim Hobert,** University of Florida; **Susan Holmes**, Stanford University
- *Harmonic Analysis*, June 27- July 3, 2009. Organizers: **Ciprian Demeter**, Indiana University; **Michael Lacey**, Georgia Institute of Technology; **Christoph Thiele**, University of California, Los Angeles.

2010

- *Birational Geometry and Moduli Spaces*, June 12-18, 2010. Organizers: **Dan Abramovich**, Brown University; **Izzet Coskun**, University of Illinois at Chicago; **Tommàso de Fernex**, University of Utah; **Angela Gibney**, University of Georgia; **James McKernan**, Massachusetts Institute of Technology, assisted by **Emanuele Macri**, University of Utah
- *Model Theory of Fields*, June 19–25, 2010. Organizers: **Antoine Chambert-Loir**, Université de Rennes 1; **Françoise Delon**, CNRS, Université Diderot-Paris 7; **Ehud Hrushovski**, Hebrew University; **François Loeser**, École Normale Supérieure; **Thomas Scanlon**, University of California, Berkeley; **Carol Wood**, Wesleyan University

- *Commutative Algebra*, June 26 – July 2,2010. Organizers: **David Eisenbud**, University of California, Berkeley; **Craig Huneke**, University of Kansas, **Mircea Mustata**, University of Michigan; **Claudia Polini**, University of Notre Dame

2011
- *The Geometry of Real Projective Structures*, June 12 – 18, 2011. Organizers*:* **Virginie Charette**, Université de Sherbrooke; **Daryl Cooper**, University of California, Santa Barbara; **William Goldman**, University of Maryland; **Anna Wienhard**, Princeton University
- *Computational and Applied Topology*, June 19 - 25, 2011. Organizers: **Gunnar Carlsson**, Stanford University; **Robert Ghrist**, University of Pennsylvania; **Benjamin Mann**, Ayasdi, Inc.
- *The Pretentious View of Analytic Number Theory*, June 26 – July 2, 2011. Organizers: **Andrew Granville**, Université de Montréal; **Dimitris Koukoulopoulos**, Université de Montréal; **Youness Lamzouri**, University of Illinois at Urbana-Champaign; **Kannan Soundararajan**, Stanford University; **Frank Thorne**, Stanford University

2012
- *Discrete and Computational Geometry*, June 10-16, 2012. Organizers*:* **Satyan Devadoss**, Williams College; **Vida Dujmovic**, Carleton University; **Joseph O'Rourke**, Smith College; **Yusu Wang**, The Ohio State University
- *Partial Differential Equations, Harmonic Analysis, Complex Analysis, and Geometric Measure Theory*, June 17-23, 2012. Organizers: **Dorina Mitrea**, University of Missouri at Columbia; **Irina Mitrea**, Temple University; **Katharine Ott**, University of Kentucky
- *Geometry and Representation Theory Related to Geometric Complexity and Other Variants of P v. NP*, June 17-23, 2012. Organizers: **Shrawan Kumar**, University of North Carolina, Chapel Hill; **J. M. Landsberg**, Texas A&M University; **Jerzy Weyman**, Northeastern University
- *Arithmetic Statistics*, June 24-30, 2012. Organizers: **Brian Conrey**, American Institute of Mathematics; **Chantal David**, Concordia University; **Wei Ho**, Columbia University; **Michael Rubinstein**, University of Waterloo; **Nina Snaith**, University of Bristol; **William Stein**, University of Washington

2013
- *Complex Dynamics*, June 9 – 15, 2013. Organizers*:* **Laura DeMarco,** University of Illinois at Chicago; **Adam Epstein,** University of Warwick; **Sarah Koch,** Harvard University
- *Tropical and Nonarchimedean Analytic Geometry*, June 9 – 15, 2013. Organizers*:* **Matt Baker,** Georgia Institute of Technology; **Sam Payne,** Yale University
- *Geometric Group Theory,* June 16 – 22, 2013. Organizers: **Ruth Charney,** Brandeis University; **Tullia Dymarz,** University of Wisconsin, Madison; **Dan Margalit,** Georgia Institute of Technology; **Kim Ruane,** Tufts University; **Kevin Wortman,** University of Utah

- ***Regularity Problems for Nonlinear Partial Differential Equations Modeling Fluids and Complex Fluids***, June 25 - July 1, 2013. Organizers: **Peter Constantin,** Princeton University; **Gautam Iyer,** Carnegie Mellon University; **Igor Kukavica,** University of Southern California; **Helena Nussenzveig-Lopes,** Universidade Federal do Rio de Janeiro; **Jiahong Wu,** Oklahoma State University

2014

- ***Cluster Algebras***, June 8 – 14, 2014. Organizers*:* **Michael Gekhtman**, University of Notre Dame; **Mark Gross**, University of California, San Diego; **Gregg Musiker**, University of Minnesota; **David Speyer**, University of Michigan; **Gordana Todorov**, Northeastern University
- ***Algebraic and Geometric Methods in Applied Discrete Mathematics***, June 15 – 21, 2014. Organizers: **Carina Curto**, University of Nebraska-Lincoln; **Jesus A. De Loera**, University of California, Davis; **Christine Heitsch**, Georgia Institute of Technology; **Michael Orrison**, Harvey Mudd College; **Francis Edward Su**, Harvey Mudd College
- ***Mathematics of Quantum Phases of Matter and Quantum Information***, June 24 – 30, 2014. Organizers*:* **Siu-Hung Ng,** Iowa State University and Louisiana State University; **Eric C. Rowell**, Texas A&M University; **Zhenghan Wang**, Microsoft Station Q and U.C. Santa Barbara
- ***Network Science,*** June 24 – 30, 2014. Organizers*:* **Aaron Clauset**, University of Colorado, Boulder; **David Kempe**, University of Southern California; **Mason A. Porter**, University of Oxford

2015

- ***Commutative Algebra,*** June 7 – 13, 2015. Organizers*:* **Srikanth B. Iyengar**, University of Utah; **Karl Schwede**, University of Utah; **Liana Sega**, University of Missouri—Kansas City; **Gregory G. Smith**, Queen's University; **Wenliang Zhang**, University of Nebraska
- ***Financial Mathematics,*** June 14 – 20, 2015. Organizers: **Maxim Bichuch**, Worcester Polytechnic Institute; **Michael Carlisle**, Baruch College, CUNY; **Olympia Hadjiliadis**, Brooklyn College and Graduate Center, CUNY; **Birgit Rudloff**, Princeton University; **Stephan Sturm**, Worcester Polytechnic Institute
- ***Differential Equations, Probability and Sea Ice***, June 21 – 27, 2015. Organizers: **Daniel Feltham**, University of Reading; **Kenneth M. Golden**, University of Utah; **Mary Silber**, Northwestern University; **Court Strong**, University of Utah; **Deborah Sulsky**, University of New Mexico

2016

- ***Lie group representations, discretization, and Gelfand pairs,*** June 5 – 11, 2016. Organizers: **Bradley Currey**, Saint Louis University; **Gestur Olafsson**, Louisiana State University; **Gail Ratcliff**, East Carolina University
- ***Character Varieties: Experiments and New Frontiers,*** June 5– 11, 2016. Organizers: **Sean Lawton**, George Mason University; **Christopher Manon**, George Mason University; **Adam Sikora**, State University of New York at Buffalo

- *Algebraic Statistics,* June 12 – 18, 2016. Organizers: **Mathias Drton**, University of Washington; **Elizabeth Gross**, San Jose State University; **Serkan Hosten**, San Francisco State University; **David Kahle**, Baylor University; **Sonja Petrovic**, Illinois Institute of Technology
- *Mathematics in Physiology and Medicine,* June 19 – 25, 2016. Organizers: **Dan Beard**, University of Michigan; **Brian Carlson**, University of Michigan; **Adam Mahdi**, University of Oxford; **Mette Olufsen**, North Carolina State University; **Johnny Ottesen**, Roskilde University

2017
- *Homotopy Type Theory,* June 4 – 10, 2017. Organizers: **Dan Christensen**, University of Western Ontario; **Chris Kapulkin**, University of Western Ontario; **Dan Licata**, Wesleyan University; **Emily Riehl**, Johns Hopkins University; **Mike Shulman**, University of San Diego
- *Beyond Planarity: Crossing Numbers of Graphs,* June 11 – 17, 2017. **Éva Czabarka**, University of South Carolina; **Silvia Fernández-Merchant,** California State University Northridge; **Gelasio Salazar,** Universidad Autonoma de San Luis Potosi; **Marcus Schaefer,** DePaul University; **László Székely**, University of South Carolina
- *Dynamical Systems: Smooth, Symbolic, and Measurable,* June 11 – 18, 2017. **Jon Chaika**, University of Utah; **Vaughn Climenhaga**, University of Houston; **Boris Hasselblatt**, Tufts University; Dmitry Kleinbock (Brandeis University); **Bryna Kra**, Northwestern University; **Daniel J. Thompson**, Ohio State University

2018
- *The Mathematics of Gravity and Light*, June 3 – 9, 2018. Organizers: **Charles Keeton**, Rutgers University; **Arlie Petters**, Duke University; **Marcus Werner**, Yukawa Institute for Theoretical Physics and Hakubi Center for Advanced Research
- *Harmonic Analysis: New Developments on Oscillatory Integrals*, June 3 – 9, 2018. Organizers: **Philip T. Gressman**, University of Pennsylvania; **Larry Guth**, Massachusetts Institute of Technology; **Lillian B. Pierce**, Duke University
- *Quantum Symmetries: Subfactors and Fusion Categories*, June 10 – 16, 2018. Organizers: **David Penneys**, The Ohio State University; **Julia Plavnik**, Texas A & M University; **Noah Snyder**, Indiana University
- *Number Theory in Hyperbolic Geometry,* June 10 – 16, 2018. Organizers: **Benjamin Linowitz**, Oberlin College; **David Ben McReynolds**, Purdue University; **Matthew Stover**, Temple University
- *Agent-based Modeling in Biological and Social Systems,* June 17 – 23, 2018. Organizers: **Andrew Bernoff**, Harvey Mudd College; **Maria D'Orsogna**, California State University Northridge; **Alan Lindsay**, University of Notre Dame; **Chad Topaz**, Williams College; **Alexandria Volkening**, Mathematical Biosciences Institute at Ohio State; **Lori Ziegelmeier**, Macalester College

2019

- ***Geometric Representation Theory and Equivariant Elliptic Cohomology,*** June 2 – 8, 2019. Organizers: **Dan Berwick-Evans**, University of Illinois at Urbana-Champaign; **Emily Cliff**, University of Illinois at Urbana-Champaign; **Nora Ganter**, University of Melbourne; **Arnav Tripathy**, Harvard University; **Joshua Jeishing Wen**, University of Illinois at Urbana-Champaign
- ***Stochastic Spatial Models,*** June 9 – 15, 2019. Organizers: **Gerandy Brito**, Georgia Institute of Technology; **Michael Damron**, Georgia Institute of Technology; **Rick Durrett**, Duke University; **Matthew Junge**, Duke University, **David Sivakoff**, Ohio State University
- ***Explicit Methods in Arithmetic Geometry in Characteristic p,*** Junw 16 – 22, 2019. Organizers: **Renee Bell**, University of Pennsylvania; **Julia Hartmann**, University of Pennsylvania; **Valentijn Karemaker**, University of Pennsylvania; **Padmavathi Srinivasan**, Georgia Institute of Technology; **Isabel Vogt**, Massachusetts Institute of Technology

2020   *Rescheduled to 2021 due to COVID-19 pandemic*

2021

- ***Dynamics of Infectious Diseases: Ecological Models Across Multiple Scales,*** May 30 – June 5, 2021. Organizers: **Julie Blackwood,** Williams College; **Lauren Childs**, Virginia Tech; **Suzanne Lenhart**, University of Tennessee, Knoxville; **Olivia Prosper**, University of Tennessee, Knoxville
- ***Combinatorial Applications of Computational Geometry and Algebraic Topology,*** May 30 – June 5, 2021. Organizers: **Stephen Melczer**, University of Waterloo; **Marni Mishna**, Simon Fraser University; **Robin Pemantle**, University of Pennsylvania
- ***Finding Needles in Haystacks: Approaches to Inverse Problems using Combinatorics and Linear Algebra,*** June 6 – 12, 2021. Organizers: **Shaun Fallat**, University of Regina; **H. Tracy Hall,** NewVistas LLC; **Leslie Hogben**, Iowa State University and the American Institute of Mathematics; **Bryan Shader**, University of Wyoming; **Michael Young**, Iowa State University
- ***Analysis in Metric Spaces,*** June 13 – 19, 2021. Organizers: **Mario Bonk**, University of California at Los Angeles; **Luca Capogna**, Worcester Polytechnic Institute; **Piotr Hajlasz**, University of Pittsburgh; **Nageswari Shanmugalingam**, University of Cincinnati; **Jeremy Tyson**, University of Illinois at Urbana-Champaign
- ***New Problems in Several Complex Variables,*** June 13 – 19, 2021. Organizers: **Dusty Grundmeier**, Harvard University; **Loredana Lanzani,** Syracuse University; **Yunus Zeytuncu**, University of Michigan–Dearborn

2022

- ***Applied Category Theory,*** May 29 – June 4, 2022. Organizers: **John Baez,** University of California, Riverside; **Simon Cho**, Amazon; **Daniel Cicala**, University of New Haven; **Nina Otter**, Queen Mary University of London; **Valeria de Paiva**, Topos Institute
- ***Data Science at the Crossroads of Analysis, Geometry, and Topology,*** May 29 – June 4, 2022. Organizers: **Marina Meila**, University of Washington; **Facundo Mémoli**, The Ohio State University; **Jose Perea**, Northeastern University; **Nicolas Garcia Trillos**, University of Wisconsin-Madison; **Soledad Villar**, Johns Hopkins

University

- ***Models and Methods for Sparse (Hyper)Network Science (the first Business, Industry and Government [BIG] MRC),*** June 5 – 11, 2022. Organizers: **Sinan G. Aksoy**, Pacific Northwest National Laboratory; **Aric Hagberg**, Los Alamos National Laboratory; **Cliff Joslyn**, Pacific Northwest National Laboratory; **Nathan Lemons**, Los Alamos National Laboratory; **Bill Kay**, Pacific Northwest National Laboratory; **Emilie Purvine**, Pacific Northwest National Laboratory; **Stephen J. Young**, Pacific Northwest National Laboratory
- ***Trees in Many Contexts,*** June 5 – 11, 2022. Organizers: **Miklós Bóna**, University of Florida; **Éva Czabarka**, University of South Carolina; **Heather Smith Blake**, Davidson College; **Stephan Wagner**, Uppsala University; **Hua Wang**, Georgia Southern University