RECORD OF EVENTS

School of Historical Studies

ANCIENT STUDIES ACTIVITIES

October 1
Ancient Studies Seminar + New Epigraphic Evidence for the Cults of Aphrodiasia + Angelos Chaniotis, Professor, School of Historical Studies

October 15
Ancient Studies Seminar + The Poem of Hyssalos of Mylasa + Christopher Jones, Harvard University; Institute for Advanced Study

November 12
Ancient Studies Seminar + Understanding Late Antique Petra + Zbigniew Fiema, University of Helsinki; Member, School of Historical Studies

November 19
Ancient Studies Seminar + Paradoxes of Parrhesia + Hartmut Leppin, Goethe Universität; Member, School of Historical Studies

December 10
Ancient Studies Seminar + Historical Determinants of Statue Production, Use and Re-use to Late Antiquity + Esben Ogüs, Austin Peay State University; Member, School of Historical Studies

January 28
Ancient Studies Seminar + The 'Koinon of the 13 Cities' in the Light of New Inscriptions from Sardis + Martin Hallmannsecker, University of Oxford

February 11
Ancient Studies Seminar + The Polis as a Stage: Theatricality and Illusion in the Long Hellenistic Age + Angelos Chaniotis, Professor, School of Historical Studies

February 25
Ancient Studies Seminar + The Aksumite Ruler Ezana and Accounts of the Conversion of Ethiopia to Christianity + Aaron Butts, The Catholic University of America; Member, School of Historical Studies

March 6
Epigraphic Friday + Petrifled Wit: Humor in Greek Inscriptions + Angelos Chaniotis, Professor, School of Historical Studies + The Honnold Mears Lectures in Hellenic Art and Culture + Emry Dakin, City University of New York; The ‘Pride of Halikarnassos’ and its Audience + Jeremy McInerney, University of Pennsylvania + The Menogeneion at Sardis + Christopher Jones, Harvard University; Institute for Advanced Study + Eunoma and Eunous: Interstate Relations and Personal Politics + Maria Xanthou, Princeton University + New inscriptions from Lyttos (Crete) + Georgios Tsolakis, Institute for the Study of the Ancient World; New York University + Le décret de Mylasa pour Xénonamos + Thibault Boulay, University of Tours; Member, School of Historical Studies + The Worship of Cybele on the Thracian Coast of the Black Sea in the light of two inscriptions from Easo and Priene + Dobrinka Chiekaeva, The College of New Jersey + A List of Priests from Scythopolis/Beth Shean (SEG VIII 33) + Kyle Mahoney, Swarthmore College + New Inscriptions from Hegra + Zbigniew Fiema, University of Helsinki; Member, School of Historical Studies + Maryamat, a Qatabanian Trade City Recently Rediscovered + Christian Robin, Centre National de la Recherche Scientifique; Member, School of Historical Studies

March 24
Ancient Studies Seminar + The Monastic Transformation of Graeco-Roman Popular Theater: A Corpus and Theory of Ancient Christian Comedy + Paul Dilley, University of Iowa; Member, School of Historical Studies

March 31
Ancient Studies Seminar + The Christians in the Cities of the Roman Empire at the End of the 3rd Century + Anne-Valéry Pont, Sorbonne Université; Member, School of Historical Studies

April 7
Ancient Studies Seminar + (Re)Constructing the Past in Roman Corinth and Sparta + Wolfgang Havener, Heidelberg University; Princeton University

April 14
Ancient Studies Seminar + Spying and Waterboarding: The Role of the_Latif in Controlling Clerical Misconduct in Late Antique North Africa + Michael Hahn, University of Munich

ART HISTORY ACTIVITIES

October 3
Art History Seminar + First term introductions + short presentations by the participants + Yve-Alain Bois, Professor, School of Historical Studies

October 10
Art History Seminar + First term introductions + short presentations by the participants (suite) + Yve-Alain Bois, Professor, School of Historical Studies

October 17
Art History Seminar + Coming and Going, or, On Being (and Not Being) Attached: Artists on the Move in the Middle Ages + Heidi Gearhart, George Mason University; Member, School of Historical Studies

October 31
Art History Seminar (evening) + Provoking Religion: Visual Art and the U.S. Culture Wars + Anthony Petro, Boston University; Member, School of Historical Studies

November 13
Art History Seminar + Painting Against Time: Medicine and Astrology in a Thirteenth-Century Mural + Marius Hauknes, University of Notre Dame; Member, School of Historical Studies

November 20
S.T. Lee Lecture + Architecture in Two Dimensions: The Case for and Against Drawing + Alina Payne, Harvard University

December 5
Art History Seminar + Orientation: El Lisitzsky’s Evolutionary Urbanism + Alla Vronskaya, Illinois Institute of Technology; Member, School of Historical Studies

January 23
Art History Seminar + Second term introductions + wrap up of full term and short presentations by new participants + Yve-Alain Bois, Professor, School of Historical Studies

January 30
Art History Seminar + The Bronze Door of Hildesheim (1015): Dredging Monumental Iconic Works + Charlotte Denoël, Bibliothèque Nationale de France; Member, School of Historical Studies + Isabelle Marchesin, Institut National d’Histoire de l’Art, Paris; Visitor, School of Historical Studies

February 20
Art History Seminar + Chasing Fouquet’s Agnes Sorel + Laura Weigert, Rutgers, the State University of New Jersey; Member, School of Historical Studies

February 27
Art History Seminar + Foucault at Work + Molly Nesbit, Vassar College; Member, School of Historical Studies

March 6
Art History Seminar + Temporal Painting: The Calendar Cycle at Santi Quattro Coronati + Marius Hauknes, University of Notre Dame; Member, School of Historical Studies
April 8
Art History Zoom Seminar + The Talent-Meter: Designing Divided Labor + Alia Vronskaia, Illinois Institute of Technology; Member, School of Historical Studies

April 22
Art History Zoom Seminar + The “Palestina Picta”: Gatherings on the History of a Statue Starred by Michelangelo + Marilyn Aronberg Lavin

April 27
Art History Zoom Seminar + The Christian Concept of Light and its Implication in Medieval Iconography + Isabelle Marchesin, Institut National d’Histoire de l’Art, Paris; Visitor, School of Historical Studies

May 6
Art History Zoom Seminar + El Lisitzky and the Modern Space of Axonometry + Yve-Alain Bois, Professor, School of Historical Studies

May 13
Art History Zoom Seminar + The feather and the lead. The weight of words on text-only jackets and covers, in France and the US around WW2 + Clémence Imbert

May 27
Art History Zoom Seminar + The Early Work of Vija Čeļmīns + Frances Jacobus-Parker

EARLY MODERN EUROPE ACTIVITIES

October 10
Early Modern Europe Seminar + Indigenizing Calvinism in the Dutch Empire + Charles Parker, Saint Louis University; Member, School of Historical Studies

October 28
Early Modern Europe Seminar + No Better than a Brothel + Beth Plummer, University of Arizona; Member, School of Historical Studies

November 4
Early Modern Europe Seminar + Metallism and the Social Theory of Money in Seventeenth-Century England + Andrew Sartori, New York University; Member, School of Historical Studies

November 25
Early Modern Europe Seminar + Religious Artifacts and Slaves in the Early Modern Mediterranean + Daniel Hershenzon, University of Connecticut; Member, School of Historical Studies

December 2
Early Modern Europe Seminar + Signs of History: A Historical Inquiry into the Monument as an Object of Knowledge + Lisa Regazzoni, Member, School of Historical Studies

January 16
Early Modern Europe Seminar + Man Alone Sings + Deirdre Loughridge, Northeastern University; Member, School of Historical Studies

January 27
Early Modern Europe Seminar + The Place of Sorensky in the Thought of a Seventeenth Century Moroccan Astronomer and Alchemist + Justin Stearns, New York University Abu Dhabi; Member, School of Historical Studies

February 3
Early Modern Europe Seminar + The Globalization of Calvinism and Dutch Society + Charles Parker, Saint Louis University; Member, School of Historical Studies

February 13
Early Modern Europe Seminar + “The Shipwreck of the Turks”: Law of Nations, Sovereignty, and the Boundaries of Hospitality in the Eighteenth-Century Mediterranean + Francesca Trivellato, Andrew W. Mellon Professor, School of Historical Studies, with Guillaume Calafat, Paris 1-Panthéon Sorbonne

February 20
What is Global History? A Roundtable + Sebastian Conrad, Professor of History, Free University of Berlin in conversation with Suzanne Conklin Akbari, Professor, School of Historical Studies; Nicola Di Cosmo, Luce Foundation Professor in East Asian Studies, School of Historical Studies; Francesca Trivellato, Andrew W. Mellon Professor, School of Historical Studies

March 5
Early Modern Europe Seminar + The Maghreb in Spain: Slave and Muslims in Eighteenth-Century Cartagena + Daniel Hershenzon, University of Connecticut; Member, School of Historical Studies

March 27
Early Modern Europe Seminar + The Enlightenment and Original Sin + Matt Kadane, Hobart and William Smith Colleges; Member, School of Historical Studies

April 13
Early Modern Europe Seminar + The Blood of Households: Private Violence and Legalities of Raiding in Early European Empires + Lauren Benton, Vanderbilt University; Member, School of Historical Studies

April 15
Early Modern Europe Seminar + Coevolution of Judicial and Reputational Institutions in Contract Enforcement across the Early Atlantic Sugar Route + Daniel Strum, University of Sao Paulo; Member, School of Historical Studies

EAST ASIAN STUDIES ACTIVITIES

October 7
East Asian Seminar + China’s Afro-Asian Philology (ca. 1955–65) + Tamara Chin, Brown University; Member, School of Historical Studies

October 14
East Asian Seminar + Rats, Cats, and Bandits in the Early Modern Canton Delta + Robert Antony, Guangzhou University; Member, School of Historical Studies

October 28
East Asian Seminar + The Climate of the Mandhu Conquest + Nicola Di Cosmo, Luce Foundation Professor in East Asian Studies, School of Historical Studies, Institute for Advanced Study

November 4
East Asian Seminar + The Barbers of Beijing + Fabio Lanza, University of Arizona; Member, School of Historical Studies

November 25
East Asian Seminar + From the Ground Up: Refining Views of Japanese History (850–1550) Through Mining + Tom Conlan, Princeton University

December 16
East Asian Seminar + New China Daily: Social Change and the Class Project in Wartime Nationalist China + Joshua Howard, University of Mississippi; Member, School of Historical Studies

January 20
East Asian Seminar + Is it finished? Problems in the history of Chinese buildings, with some thoughts on xiu 修 + Susan Naquin, Princeton University

February 3
East Asian Seminar + New insights on the transition to agriculture and sedentary way of life in North China + Gideon Shelach-Lavi, Hebrew University; Member, School of Historical Studies

February 17
East Asian Seminar + Instability, crises and disintegration of the Turki empires on the Mongolian plateau + Jan Bemmann, University of Bonn; Member, School of Historical Studies

March 2
East Asian Seminar + Beneath the China Boom: Labor, Citizenship, and the Making of a Rural Land Market + Julia Chang, Boston College; Member, School of Historical Studies
MEIDIEVAL STUDIES ACTIVITIES

October 31
Medieval Studies Seminar • First Term Introductions and Disciplinary Methodologies (Nirenberg, Whitaker) • Suzanne Conklin Akbari, Professor, School of Historical Studies • 2019–20 series on “Race, Racialization, and Periodization” co-convened with Cord Whitaker, Wellesley College; Member, School of Historical Studies

November 7
Medieval Studies Seminar • The Politics of the History of Race and Racialization: Jewish Studies and Art History (Lipton, Mittman) • Suzanne Conklin Akbari, Professor, School of Historical Studies, and Cord Whitaker, Wellesley College; Member, School of Historical Studies

November 14
Medieval Studies Seminar • The Intersection of Religion and Race: Muslim Bodies (Akbari, Heng) • Suzanne Conklin Akbari, Professor, School of Historical Studies, and Cord Whitaker, Wellesley College; Member, School of Historical Studies

November 19
Book History Workshop • Formats of the Book in East Asia and Environments • Suzanne Conklin Akbari, Professor, School of Historical Studies; Nicola Di Cosmo, Luce Foundation Professor in East Asian Studies, School of Historical Studies; Paul Chandler-Dilley, University of Iowa; Member, School of Historical Studies; Martin Heijdra, Princeton University; Stephen Teiser, Princeton University • co-sponsored by the Andrew W. Mellon Foundation and Princeton’s Buddhist Studies Workshop

December 5
Medieval Studies Seminar • Ethnicity, Race, and Racialization (Reimtz, Rouigh) • Suzanne Conklin Akbari, Professor, School of Historical Studies, and Cord Whitaker, Wellesley College; Member, School of Historical Studies

January 23
Medieval Studies Seminar • Critical Race and the Middle Ages (Kim, Lopez-Janzen) • Suzanne Conklin Akbari, Professor, School of Historical Studies, and Cord Whitaker, Wellesley College; Member, School of Historical Studies

February 13
Medieval Studies Seminar • Political and Racial Identities of the English and the Welsh (Lavezzo, Lumley) • Celia Chazelle, The College of New Jersey

March 5
Medieval Studies Seminar • Legalizing Ethnicity and Ethnogenesis (Reimtz, Haney López) • Helmut Reimtz, Princeton University

April 16
Medieval Studies Seminar • Medieval Indigenousity (Miyashita, Rouigh) • Suzanne Conklin Akbari, Professor, School of Historical Studies

May 14
Medieval Studies Seminar • Unary in Pistoiα and the Role of Anti-Judaism (Fossier, Todeschini) • Arnaud Fossier, Université de Bourgogne • Member, School of Historical Studies

May 7
Medieval Studies Seminar • Slavery, the Slave Trade, and Venetian Notarial Documents (Ammati and Cluze; Stella) • Nicola Di Cosmo, Luce Foundation Professor in East Asian Studies, School of Historical Studies

May 21
Medieval Studies Seminar • Racialization, Enslavement, and Religious Identity (Epstein, Silvestro-Fernández) • Ariana Myers, Princeton University

June 4
Medieval Studies Seminar • Ethnicity and Race in Early Medieval Book Illumination (Denœuf, Michael) • Charlotte Denœuf, Bibliothèque Nationale de France; Member, School of Historical Studies

June 11
Medieval Studies Seminar • Race, Racialization, and Periodization (Davis, Whitaker) • Cord Whitaker, Wellesley College; Member, School of Historical Studies

NEAR/MIDDLE EASTERN AND ISLAMIC STUDIES ACTIVITIES

October 2
Near Eastern Studies Seminar • Intersections between Arabic and Anamanic: The Case of Syrisch Christians • Aaron Michael Butts, The Catholic University of America • Member, School of Historical Studies

October 17
The Historical Studies-Social Science Library Conversations • The Syrian Orthodox in North America (1895–1995): A Short History • George A. Kiraz, Beth Mardutho; The Syriac Institute; Research Associate, School of Historical Studies

October 23
Near Eastern Studies Seminar • The Political Sources of Copts-Arabic Pseudepigraphy: Stories of the First Church of Mary as Responses to Territorial Dispossession • Mary Kamal Farag, Princeton Theological Seminary; Member, School of Historical Studies

December 4
Near Eastern Studies Seminar • The Arabia of Awlīa • Christian Robin, Centre National de la Recherche Scientifique, Paris; Member, School of Historical Studies

December 11
Near Eastern Studies Seminar • The Kidnapping of a 14th Century Rasulid Sultan: The Case of al-Malik al-Mujahid ‘Ali • Daniel Martin Varisco, American Institute for Yemeni Studies; Member, School of Historical Studies

January 21, 23, 28, and February 13
Near Eastern Studies Workshop • Documents/ Inscriptions from pre-Islamic Southern Arabia • Led by Christian Robin, Centre National de la Recherche Scientifique, Paris; Member, School of Historical Studies • Sponsored by Sabine Schmidtke, Professor, School of Historical Studies

January 27
Inns at the Crossroads of Civilization: Scholars and Lawyers Speaking about Iranian History and Cultural Heritage. A Panel Discussion • Irina Bokova, former Director-General of UNESCO; Touraj Daryaeae, University of California, Irvine; Ani Honachriansaksy, Princeton University; Rudi Matthee, University of Delaware; Matthew T. Miller, University of Maryland, College Park; Alexander Nagel, State University of New York and Smithsonian Institution, Washington, DC; Thomas G. Weiss, The Graduate Center, City University of New York. Sponsored by Sabine Schmidtke, Professor, School of Historical Studies

January 29
Near Eastern Studies Seminar • Medicine, God, and the Occult in 17th Century Morocco • Justin Stearns, New York University Abu Dhabi; Member, School of Historical Studies

February 5
Near Eastern Studies Seminar • Tribal Dynamics and Nation Building in Yemen • Najwa Adra, Austrian Academy of Sciences; Visitor, School of Social Science

February 12
Near Eastern Studies Seminar • Mathematical Methods in the Soviet Historiography of Medieval Islamic Architecture • Igor Demchenko, Columbia University; Visitor, School of Historical Studies

February 19
Near Eastern Studies Seminar • Why Yemen Matters: The Heritage of a Land in Crisis, A Panel Discussion with current IAS Scholars • Najwa Adra, Austrian Academy of Sciences; Visitor, School of Social Science; Hassan Ansari, Long-term Member, School of Historical Studies; Glen W. Bowersock, Professor Emeritus, School of Historical Studies; Nathalie Peutz, New York University Abu Dhabi; Member, School of Social Science; Christian Robin, Centre National de la
School of Mathematics

September 10
PCTS Seminar Series: Deep Learning for Physics • Toward Theoretical Understanding of Deep Learning • Sanjeev Arora, Princeton University; Distinguished Visiting Professor, School of Mathematics

September 11
Seminar on Theoretical Machine Learning

September 12
Joint IAS/Princeton University Number Theory Seminar • Taking the Hecke Algebra to Its Limits • Raphael Steiner, Member, School of Mathematics

September 19
Number Theory Working Group • Singular Moduli for Real Quadratic Fields (Organizational Meeting) • Jan Vonk, Member, School of Mathematics

Joint IAS/Princeton University Number Theory Seminar • On the Arithmetic of Elliptic Curves over Quintic Fields • Michele Fornea, Princeton University

September 24
Short talks by postdoctoral members • A Program for Classifying Transitive Anosov Diffeomorphisms • Clark Butler, Princeton University; Veblen Research Instructor, School of Mathematics • Flatness, Smoothness, and the Analytic Travelling Salesman Theorem • Silvia Ghinassi, Member, School of Mathematics • Geometric Applications of Derived Categories • Alexander Perry, Member, School of Mathematics • Golden Gates in $PU(n)$ and the Density Hypothesis • Shai Evra, Member, School of Mathematics • Growth of Topological Invariants of Locally Symmetric Spaces • Mikolaj Fraczyk, Member, School of Mathematics • Interfaces in Inhomogeneous Media: Pinning, Hysteresis, and Foci • William Feldman, Member, School of Mathematics • Robustness and Strategic Concerns in Machine Learning • Yu Cheng, Member, School of Mathematics

September 25
Short talks by postdoctoral members • Counting Curves on Quintic Threefolds • Felix Janda, Member, School of Mathematics • Exploration in Reinforcement Learning • Chi Jin, Member, School of Mathematics • Fourier Coefficients of Automorphic Forms • Henrik Gustafsson, Member, School of Mathematics • Spectral Statistics of Sparse Random Graphs • Jiaoyang Huang, Member, School of Mathematics • Stochastic Local Search and the Lovasz Local Lemma • Fotios Iliopoulos, Member, School of Mathematics • The Thin Obstacle Problem • Yash Jhaveri, Member, School of Mathematics

September 26
Joint IAS/Princeton University Number Theory Seminar • Golden Gates in $PU(n)$ and the Density Hypothesis • Shai Evra, Member, School of Mathematics

September 27
Short talks by postdoctoral members • Degeneration of Calabi-Yau Metrics • Yang Li, Member, School of Mathematics • Ill-Posedness of Incompressible Fluid Models • Hyunju Kwon, Member, School of Mathematics • New Forms of Hypencovexity • Dor Minzer, School of Mathematics • Pointwise Inequalities for Certain Nonlocal Operators • Ángel Martinez Martínez, Member, School of Mathematics • Systems of Points with Logarithmic Interactions • Thomas Leblé, Member, School of Mathematics • The Asymptotic Spectrum of Graphs • Jeroen Zuiddam, Member, School of Mathematics • The Homology Cobordism Group • Linh Truong, Member, School of Mathematics

October 1
IAS-PNI Seminar on ML and Neuroscience • A Geometric Structure from Neuroscience • Sanjoy Dasgupta, University of California, San Diego; Special Year Member, School of Mathematics

Short talks by postdoctoral members • On the Connection between Neural Networks and Kernels: A Modern Perspective • Simon Du, Member, School of Mathematics • $p$-adic Hodge Theory for Local Systems • Koji Shimizu, Member, School of Mathematics • Primes in High-Dimensional Equivariant Settings • Rohit Nagpal, Member, School of Mathematics • Proof and Circuit Complexity • Robert Robere, Member, School of Mathematics • Relative Smoothness: Progress, Mysteries, and Hamiltonians • Christopher Maddison, Member, School of Mathematics

October 2
Seminars on Theoretical Machine Learning • Rethinking Control • Elad Hazan, Princeton University, Google AI Princeton

Short talks by postdoctoral members • Discrete Optimization under Uncertainty • Sahil Singla, Member, School of Mathematics • Distributional Aspects of Hecke Eigenforms • Raphael Steiner, Member, School of Mathematics • Incidence Estimates with Applications to Fourier Analysis • Hong Wang, Member, School of Mathematics • Interactive Learning with Comparison Queries • Shay Moran, Google Brain; Visitor, School of Mathematics • Life in Characteristic $p$ (And How to Escape It) • Remy van Dobben de Bruyn, Princeton University; Veblen Research Instructor, School of Mathematics • Matrix Theory: Optimization, Concentration and Algorithms • Zhao Song, Member, School of Mathematics • Singular Moduli for Real Quadratic Fields and $p$-adic Families of Modular Forms • Jan Vonk, Member, School of Mathematics • Towards Building a Foundation of Deep Learning • Jason Lee, Member, School of Mathematics

October 3
Joint IAS/Princeton University Number Theory Seminar • A Stacky Approach to Crystalline (and Prismatic) Cohomology • Vladimir Drinfeld, The University of Chicago; Visiting Professor, School of Mathematics

Working Seminar in Algebraic Number Theory

October 4
Short talks by postdoctoral members • A Short Talk around the Harish-Chandra Transform • Alexander Yom Din, Member, School of Mathematics • Decay of Correlations for Anosov Flows • Zhiyuan Zhang, Member, School of Mathematics • Dynamics of Deep Neural Networks—A Fourier Analysis Perspective • Yaoyu Zhang, Member, School of Mathematics • Estimating the Wasserstein Metric • Jonathan Niles-Weed, Member, School of Mathematics • Robustness of Graph Properties—Property Testing and Removal Lemma • Fan Wei, Member, School of Mathematics • Uniqueness Aspects of Symplectic Fillings • Zhengyi Zhou, Member, School of Mathematics

October 7
Members’ Seminar • Logarithmic Concavity of Schur Polynomials • June Huh, Visiting Professor, School of Mathematics

Analysis Seminar • Weak Solutions of the Navier-Stokes Equations May Be Smooth for A.E. Time • Maria Colombo, École Polytechnique Fédérale de Lausanne; von Neumann Fellow, School of Mathematics

Symplectic Dynamics/Geometry Seminar • Bourgeois Contact Structures: Tightness, Fillability and Applications • Agustin Moreno, University of Augsburg

October 8
Seminar on Theoretical Machine Learning • Unsupervised Ensemble Learning • Boaz Nadler, Weizmann Institute of Science; Member, School of Mathematics

October 9
Seminar on Theoretical Machine Learning • Designing Fast and Robust Learning Algorithms • Yu Cheng, University of Illinois at Chicago

Mathematical Conversations • Finite Fields and the Ax-Grothendieck Theorem • Remi van Dobben de Bruyn, Princeton University; Veblen Research Instructor, School of Mathematics
Working Seminar in Algebraic Number Theory

November 22
Special Dynamics Seminar • On Some Consequences of Exponential Mixing • Federico Rodriguez-Hertz, Penn State University

November 25
Joint IAS/Princeton University Number Theory Seminar • On Singularity Properties of Word Maps and Applications to Probabilistic Waring Type Problems • Itay Glazer, Weizmann Institute of Science

Special Seminar • Topological Quantum Phases • Alexei Kitaev, California Institute of Technology; Distinguished Visiting Professor, School of Natural Sciences

Members' Seminar • Convergence of nearest Neighbor Classification • Sanjoy Dasgupta, University of California, San Diego; Member, School of Mathematics

Symplectic Dynamics/Geometry Seminar • Homological Mirror Symmetry for Elliptic Hopf Surfaces • Abigail Ward, Harvard University

November 26
Seminar on Theoretical Machine Learning • A Fourier Analysis Perspective of Training Dynamics of Deep Neural Networks • Yaoyu Zhang, Member, School of Mathematics

December 2
Members' Seminar • Mathematical Models of Human Memory • Michail Tsodyks, C.V. Starr Professor, School of Natural Sciences

Analysis Seminar • Distance Estimate on Kahler Manifolds • Yang Li, Member, School of Mathematics

Symplectic Dynamics/Geometry Seminar • Disjoint Lagrangian Spheres and Cyclic Dilations • Yin Li, King's College London

December 3
IAS-PNI Seminar on ML and Neuroscience • A Distributional Code for Value in Dopamine-Based Reinforcement Learning • Matthew Botvinick, DeepMind

Joint IAS/Princeton University Number Theory Seminar • Thin Groups and the Artinian of Imaginary Quadratic Fields • Katherine Stange, University of Colorado, Boulder

December 4
Seminar on Theoretical Machine Learning • Uncoupled Isotropic Regression • Jonathan Niles-Weed, New York University; Member, School of Mathematics

Mathematical Conversations • Episodic Memory from First Principles • Michelangelo Naim, Weizmann Institute of Science; Visitor, School of Natural Sciences

December 5
Joint IAS/Princeton University Number Theory Seminar • Higher Order Uniformity of the Mobius Function • Joni Teravainen, University of Oxford

Special Seminar on Hilbert’s 13th Problem I • The Geometry of Hilbert’s 13th Problem • Jesse Wolfson, University of California, Irvine

Working Seminar on Nonabelian Hodge Theory

Working Seminar in Algebraic Number Theory

December 6
Analysis • Mathematical Physics • Candy Embedding of Random Planar Maps • Nina Holden, ETH Zürich • The Nonlinear Stability of the Schwarzschild Metric without Symmetry • Mihalis Dafermos, Princeton University

Special Seminar on Hilbert’s 13th Problem II • Topology of Resolvent Problems • Benson Farb, University of Chicago

December 9
Members’ Seminar • The h-Principle in Symplectic Geometry • Emmy Murphy, Northwestern University; von Neumann Fellow, School of Mathematics

Analysis Seminar • On the Gradient-Flow Structure of Multiphase Mean Curvature Flow • Tim Laux, University of California, Berkeley

Symplectic Dynamics/Geometry Seminar • Convex Hypersurface Theory in Higher-Dimensional Contact Topology • Ko Honda, University of California, Los Angeles

December 11
Mathematical Conversations • Cohomology Theories and Formal Groups • Jacob Lurie, Professor, School of Mathematics

December 12
Joint IAS/Princeton University Number Theory Seminar • The Arithmetic Fundamental Lemma for Unitary Groups: An Update • Wei Zhang, Massachusetts Institute of Technology

Working Seminar on Nonabelian Hodge Theory

Working Seminar in Algebraic Number Theory

December 13
Analysis • Mathematical Physics • A Rigorous Derivation of the Kinetic Wave Equation • Tristan Buckmaster, Princeton University • Localization and Unique Continuation on the Integer Lattice • Charles Smart, University of Chicago

December 17
Seminar on Theoretical Machine Learning • How Will We Do Mathematics in 2030? • Michael R. Douglas, Simons Center for Geometry and Physics, Stony Brook

December 18
Seminar on Theoretical Machine Learning • Online Learning in Reactive Environments • Raman Arora, Johns Hopkins University; Member, School of Mathematics

Mathematical Conversations • Faster and Simpler Algorithms for Robust Statistics • Yu Cheng, University of Illinois at Chicago; Visitor, School of Mathematics

December 19
Working Seminar on Nonabelian Hodge Theory

January 13
Analysis Seminar • Weak Solutions to the Navier—Stokes Inequality with Arbitrary Energy Profiles • Wojciech Ozański, University of Southern California; Member, School of Mathematics

January 14
Mathematical Conversations • Hypecoercivity • George Deligiannidis, University of Oxford

January 16
Seminar on Theoretical Machine Learning • Foundations of Intelligent Systems with (Deep) Function Approximators • Simon Du, Member, School of Mathematics

Working Seminar on Nonabelian Hodge Theory

January 17
Analysis • Mathematical Physics • Inverse Problems for Quantum Graphs • Pavel Kurasov, Stockholm University

January 21
Seminar on Theoretical Machine Learning • The Blessings of Multiple Causes • David M. Blei, Columbia University

Computer Science/Discrete Mathematics Seminar II • Approximating CSPs on Expanding Structures, and Applications to Codes • Madhur Tulsiani, Toyota Technological Institute at Chicago

January 22
Mathematical Conversations • What Is a Motive? • Pierre Deligne, Professor Emeritus, School of Mathematics
January 23
Joint IAS/Princeton University Number Theory Seminar • Motivic Euler Products in Motivic Statistics • Margaret Bilu, New York University

Seminar on Theoretical Machine Learning • In Defense of Uniform Convergence: Generalization via Derandomization • Daniel M. Roy, University of Toronto; Member, School of Mathematics

Working Seminar on Nonabelian Hodge Theory

January 27
Computer Science/Discrete Mathematics Seminar I • Equality Alone Does Not Simulate Randomness • Marc Vinylas, Technion

Members’ Seminar • Knotted 3-Balls in the 4-Sphere • David Gabai, Princeton University

Symplectic Dynamics/Geometry Seminar • Symplectic Embeddings, Integrable Systems and Billiards • Vinicius Ramos, Instituto Nacional de Matemática Pura e Aplicada

January 28
Seminar on Theoretical Machine Learning • What Noisy Convex Quadratics Tell Us about Neural Net Training • Roger Grosse, University of Toronto; Member, School of Mathematics

Computer Science/Discrete Mathematics Seminar II • Pseudo-Deterministic Algorithms • Toniann Pitassi, University of Toronto; Visiting Professor, School of Mathematics

January 30
Joint IAS/Princeton University Number Theory Seminar • Eisenstein Series and the Cubic Moment for $\text{PGL}(2)$ • Paul Nelson, ETH Zürich

Working Seminar on Nonabelian Hodge Theory

February 3
Computer Science/Discrete Mathematics Seminar I • MIP* = RE • Henry Yuen, University of Toronto

Members’ Seminar • Coarse Dynamics and Partially Hyperbolic Diffeomorphisms in 3-Manifolds • Rafael Potrie, Universidad de la República, Uruguay; von Neumann Fellow, School of Mathematics

Analysis Seminar • When Do Interacting Organisms Compete to the Vertices of a Regular Simplex? • Robert McCann, University of Toronto

Symplectic Dynamics/Geometry Seminar • Counting Embedded Curves in Symplectic 6-Manifolds • Aleksander Doan, Columbia University

February 4
Seminar on Theoretical Machine Learning • Algorithm and Hardness for Kernel Matrices in Numerical Linear Algebra and Machine Learning • Zhao Song, Member, School of Mathematics

Computer Science/Discrete Mathematics Seminar II • Proof, Circuits, Communication, and Lower Bounds in Complexity Theory • Robert Robere, Member, School of Mathematics

February 5
Mathematical Conversations • Anosov Flows in 3-Manifolds and the Fundamental Group • Rafael Potrie, Universidad de la República, Uruguay; von Neumann Fellow, School of Mathematics

February 6
Seminar on Theoretical Machine Learning • PCF Seminar Series: Deep Learning for Physics • Dynamics of Generalization in Overparameterized Neural Networks • Andrew Saxe, University of Oxford • Understanding Machine Learning via Exactly Solvable Statistical Physics Models • Lenka Zdeborova, Centre national de la recherche scientifique

Computer Science/Discrete Mathematics • Special Seminar • Explicit Rigid Matrices in $\mathbb{F}^N$ via Rectangular PCPs • Prahladh Harsha, Tata Institute of Fundamental Research

Joint IAS/Princeton University Number Theory Seminar • Supersingular Main Conjectures, Sylverster’s Conjecture and Goldfeld’s Conjecture • Daniel Kriz, Massachusetts Institute of Technology

Working Seminar on Nonabelian Hodge Theory

February 10
Computer Science/Discrete Mathematics Seminar I • Paths and Cycles in Expanders • Michael Krivelevich, Tel Aviv University

Members’ Seminar • Spectra of Metric Graphs and Crystalline Measures • Peter Sarnak, Professor, School of Mathematics

Analysis Seminar • On Dynamical Spectral Rigidity and Determination • Jacopo De Simoi, University of Toronto

Symplectic Dynamics/Geometry Seminar • Floer Homotopy without Spectra • Mohammed Abouzaid, Columbia University

February 11
Seminar on Theoretical Machine Learning • Geometric Insights into the Convergence of Non-Linear TD Learning • Joan Bruna, New York University; Member, School of Mathematics

Symplectic Dynamics/Geometry Seminar • Floer Homotopy without Spectra • Mohammed Abouzaid, Columbia University

February 12
Mathematical Conversations • $p$-adic Numbers in Cryptography and Rocky Horror • Mark Goresky, Visitor, School of Mathematics

February 13
Joint IAS/Princeton University Number Theory Seminar • Moduli Spaces of Stabiles over Function Fields • Jared Weinstein, Boston University

Seminar on Theoretical Machine Learning • The Lottery Ticket Hypothesis: On Sparse, Trainable Neural Networks • Jonathan Franke, Massachusetts Institute of Technology

Working Seminar on Nonabelian Hodge Theory

February 14
Analysis – Mathematical Physics • Regularity of the Free Boundary for the Two-Phase Bernoulli Problem • Guido De Philippis, New York University • Stable Shock Formation for the Compressible Euler Equations • Vlad Vicol, New York University

February 18
IAS-PNI Seminar on ML and Neuroscience • Compositional Generalization in Minds and Machines • Brendan Lake, New York University

Computer Science/Discrete Mathematics Seminar II • An Invitation to Invariant Theory • Viswambhara Makam, Member, School of Mathematics

February 19
Mathematical Conversations • Regularization Effect of Gradient Flow Dynamics • Yaoyu Zhang, Member, Institute for Advanced Study

February 20
Joint IAS/Princeton University Number Theory Seminar • Isolation of $L^1$ Spectrum and Application to Gain-Cross-Product Conjecture • Yifeng Liu, Yale University

Seminar on Theoretical Machine Learning • Geometric Deep Learning for Functional Protein Design • Michael Bronstein, Imperial College London

Working Seminar on Nonabelian Hodge Theory

February 24
Computer Science/Discrete Mathematics Seminar I • Strong Average-Case Circuit Lower Bounds from Non-Trivial Derandomization • Lijie Chen, Massachusetts Institute of Technology

Members’ Seminar • Direct and Dual Information Bottleneck Frameworks for Deep Learning • Naftali Tishby, The Hebrew University of Jerusalem
Analysis Seminar • “Observable Events” and “Typical Trajectories” in Finite and Infinite Dimensional Dynamical Systems • Lai-Sang Young, New York University; Distinguished Visiting Professor, School of Mathematics and Natural Sciences

Symplectic Dynamics/Geometry Seminar • Constancy of the Dimension for Non-Smooth Spaces with Rucci Curvature Bounded below via Regularity of Lagrangian Flows • Elia Brüe, Scuola Normale Superiore di Pisa

Symplectic Dynamics/Geometry Seminar • Twisted Calabi-Yau Algebras and Categories • Inbar Klang, Columbia University

March 3 Seminar on Theoretical Machine Learning • What Noisy Convex Quadratics Tell Us about Neural Net Training • Roger Grosse, University of Toronto; Member, School of Mathematics

Computer Science/Discrete Mathematics Seminar II • An Introduction to Boolean Function Analysis • Dor Minzer, Member, School of Mathematics

March 4 Mathematical Conversations • Rationality of Algebraic Varieties • Alexander Perry, Member, School of Mathematics

Workshop on Machine Learning, Theory and Method in the Social Sciences

March 5 Joint IAS/Princeton University Number Theory Seminar • Euler System, Eisenstein Congruences and the p-adic Langlands Correspondence • Eric Urban, Columbia University

Seminar on Theoretical Machine Learning • Understanding Deep Neural Networks: From Generalization to Interpretablity • Gitta Kutyniok, Technische Universität Berlin

Working Seminar on Nonabelian Hodge Theory

Computer Science/Discrete Mathematics Seminar II • Spectral Independence in High-Dimensional Expanders and Applications to the Hardcore Model • Kuikui Liu, University of Washington

Working Seminar on Nonabelian Hodge Theory

Computer Science/Discrete Mathematics Seminar I • An Improved Cutting Plane Method for Convex Optimization, Convex-Concave Games and Its Applications • Zhao Song, Member, School of Mathematics

March 10 Seminar on Theoretical Machine Learning • Your Brain on Energy-Based Models: Applying and Scaling EBM to Problems of Interest to the Machine Learning Community Today • Will Grathwohl, University of Toronto

Computer Science/Discrete Mathematics Seminar II • Introduction to High Dimensional Expanders • Irit Dinur, Weizmann Institute of Science; Visiting Professor, School of Mathematics

March 11 Seminar on Theoretical Machine Learning • Improved Bounds on Minimax Regret under Logarithmic Loss via Self-Concordance • Blair Bilodeau, University of Toronto

March 12 Joint IAS/Princeton University Number Theory Seminar • An Explicit Realization of Stable L-Packets on (Split) Classical Groups • David Soudry, Tel Aviv University

Working Seminar on Nonabelian Hodge Theory

Computer Science/Discrete Mathematics Seminar II • Sharp Thresholds and Extremal Combinatorics • Dor Minzer, Member, Institute for Advanced Study

March 17 Computer Science/Discrete Mathematics Seminar II • Sharp Thresholds and Extremal Combinatorics • Dor Minzer, Member, Institute for Advanced Study

March 9 Computer Science/Discrete Mathematics Seminar I • Learning from Censored and Dependent Data • Constantinos Daskalakis, Massachusetts Institute of Technology; Member, School of Mathematics

Workshop on Machine Learning, Theory and Method in the Social Sciences

Workshop on Machine Learning, Theory and Method in the Social Sciences/Alternate


March 23 Computer Science/Discrete Mathematics Seminar I • Optimal Tiling the Euclidean Space Using Symmetric Bodies • Mark Braverman, Princeton University

March 24 Computer Science/Discrete Mathematics Seminar II • High Dimensional Expansion and Agreement Testing • Irit Dinur, Weizmann Institute of Science; Visiting Professor, School of Mathematics

March 26 Joint IAS/Princeton University Number Theory Seminar • Wiles Defect for Hecke Algebras That Are Not Complete Intersections • Chandrashekhar Khare, University of California
March 27
Symplectic Seminar + Fragmentation Pseudometrics and Lagrangian Submanifolds + Octav Cornea, Université de Montréal

March 30
Computer Science/Discrete Mathematics Seminar I + CSPs with Global Modular Constraints: Algorithms and Hardness via Polynomial Representations + Sivakanth Gopi, Microsoft Research

March 31
Seminar on Theoretical Machine Learning + Some Recent Insights on Transfer Learning + Samory Kpotufe, Columbia University; Member, School of Mathematics

Computer Science/Discrete Mathematics Seminar II + High Dimensional Expansion and Agreement Testing + Iris Dinur, Weizmann Institute of Science; Visiting Professor, School of Mathematics

Number Theory Working Group + p-adic Modular Forms + Koji Shimizu, Member, School of Mathematics

April 2
Joint IAS/Princeton University Number Theory Seminar + Density Conjecture for Horizontal Families of Lattices in SL(2) + Mikolaj Fraczyk, Member, School of Mathematics

Symplectic Seminar + The Simplicity Conjecture + Daniel Cristofaro-Gardiner, Member, School of Mathematics

April 6
Computer Science/Discrete Mathematics Seminar I + Borrowing Memory That’s Being Used: Catalytic Approaches to the Tree Evaluation Problem + James Cook, University of Toronto

Members’ Seminar + The Palais-Smale Theorem and the Solution of Hilbert’s 23 Problem + Karen Uhlenbeck, The University of Texas at Austin; Distinguished Visiting Professor, School of Mathematics

April 7
Seminar on Theoretical Machine Learning + Interpolation in Learning: Steps towards Understanding When Overparameterization Is Harmless, When It Helps, and When It Causes Harm + Anant Sahai, University of California, Berkeley

Computer Science/Discrete Mathematics Seminar II + Primality Testing + Andrey Kupavskii, Member, School of Mathematics

Number Theory Working Group + Some Spectral Questions over R and Q^+ + Jan Vonk, Member, School of Mathematics

April 9
Joint IAS/Princeton University Number Theory Seminar + On the Kudla-Rapoport Conjecture + Chao Li, Columbia University

Seminar on Theoretical Machine Learning + Meta-Learning: Why It’s Hard and What We Can Do + Ke Li, Member, School of Mathematics

Mathematical Conversations + Consequences of Delays and Imperfect Isolation in Epidemic Control + Lai-Sang Young, New York University; Distinguished Visiting Professor, School of Mathematics and Natural Sciences

April 10
Symplectic Seminar + Geometry of Quantum Uncertainty + Leonid Polterovich, Tel Aviv University

April 13
Computer Science/Discrete Mathematics Seminar I + Local Theorems of Privacy + Kobbi Nissim, Georgetown University

Analysis Seminar + Flows of Vector Fields: Classical and Modern + Camillo De Lellis, IBM von Neumann Professor, School of Mathematics

April 14
Number Theory Working Group + Dedekind Sums, Lattice Point Counting and K^2 + Akshay Venkatesh, Robert and Luisa Fernholz Professor, School of Mathematics

April 15
Workshop on New Directions in Optimization, Statistics and Machine Learning + Evaluating Lossy Compression Rates of Deep Generative Models + Roger Grosse, Member, School of Mathematics + Generative Modeling by Estimating Gradients of the Data Distribution + Stefano Ermon, Stanford University + Interpretability for Everyone + Been Kim, Google Brain + Iterative Random Forests (IRF) with Applications to Genomics and Precision Medicine + Bin Yu, University of California, Berkeley + Towards Robust Artificial Intelligence + Pushmeet Kohli, Google + A Snapshot of Few-Shot Classification + Richard Zemel, University of Toronto; Visitor, School of Mathematics

Mathematical Conversations + Vignettes about Pure Mathematics and Machine Learning + Jordan Ellenberg, University of Wisconsin-Madison

April 16
Joint IAS/Princeton University Number Theory Seminar + Local-Global Compatibility in the Crystalline Case + Ana Caraiani, Imperial College


April 17
IAS/PU-Montreal-Tel-Aviv Symplectic Geometry Seminar + Equivariant Quantum Operations and Relations between Them + Nicholas Wilkins, University of Bristol

April 20
Computer Science/Discrete Mathematics Seminar I + Structure vs Randomness in Complexity Theory + Rahul Santhanam, University of Oxford

Analysis Seminar + A Variational Approach to the Regularity Theory for the Monge-Ampère Equation + Felix Otto, Max Planck Institute Leipzig

April 21
Seminar on Theoretical Machine Learning + Assumption-Free Prediction Intervals for Black-Box Regression Algorithms + Aaditya Ramdas, Carnegie Mellon University

Computer Science/Discrete Mathematics Seminar II + Non-Commutative Optimization: Theory, Algorithms and Applications (Or, Can We Prove P≠NP Using Gradient Descent?) + Avi Wigderson, Herbert H. Maass Professor, School of Mathematics

Number Theory Working Group + Discrete Series Representations and L^2-Cohomology + Mikolaj Fraczyk, Member, School of Mathematics

April 22
Mathematical Conversations + Sullivan’s Clock: Dennis Sullivan’s Counter-Example to the Periodic Orbit Conjecture + Richard Schwartz, Brown University
April 23
Joint IAS/Princeton University Number Theory Seminar • Symmetric Power Functoriality for Holomorphic Modular Forms • Jack Thorne, University of Cambridge

Seminar on Theoretical Machine Learning • Deep Generative Models and Inverse Problems • Alexandros Dimakis, University of Texas at Austin

April 24
IAS/PU-Montreal-Tel-Aviv Symplectic Geometry Seminar • The Geography of Immersed Lagrangian Fillings of Legendrian Submanifolds • Lisa Traynor, Bryn Mawr College

April 27
Computer Science/Discrete Mathematics Seminar II • Recent Progress on Cutting Planes Proofs • Noah Fleming, University of Toronto

Number Theory Working Group • Local Langlands Correspondence for GL(2) • Anna Szumowicz, Scuola Normale Superiore di Pisa

April 28
Analysis Seminar • Ellipses of Small Eccentricity Are Determined by Their Dirichlet (Or, Neumann) Spectra • Steven Zelditch, Northwestern University

Computer Science/Discrete Mathematics Seminar II • A Framework for Quadratic Form Maximization over Convex Sets • Vijay Bhattiprolu, Bocconi University

Number Theory Working Group • Range’s Method for Finding Solutions to Certain Diophantine Equations • Raphael Steiner, Member, School of Mathematics

April 29
Mathematical Conversations • Mustings about a 10-Year Collaboration with Biological Morphologists, or How to Make Biologists Comfortable with Fiber Bundles • Ingrid Daubechies, Duke University

April 30
Joint IAS/Princeton University Number Theory Seminar • Eulerianity of Fourier Coefficients of Automorphic Forms • Henrik Gustafsson, Member, School of Mathematics

Seminar on Theoretical Machine Learning • Latent Stochastic Differential Equations for Irregularly-Sampled Time Series • David Duvenaud, University of Toronto

May 1
IAS/PU-Montreal-Tel-Aviv Symplectic Geometry Seminar • Zoll Contact Forms Are Local Maximizers of the Stieltjes Ratio • Alberto Abbondandolo, Ruhr-Universität Bochum

May 4
Computer Science/Discrete Mathematics Seminar I • Local Statistics, Semidefinite Programming, and Community Detection • Prasad Raghavendra, University of California, Berkeley

Analysis Seminar • Exponential Mixing of 3d Anosov Flows • Zhiyuan Zhang, Université Paris 13

May 5
Seminar on Theoretical Machine Learning • Boosting Simple Learners • Shay Moran, Google Brain; Visitor, School of Mathematics

Computer Science/Discrete Mathematics Seminar II • Recent Progress on Cutting Planes Proofs • Noah Fleming, University of Toronto

Number Theory Working Group • Local Langlands Correspondence for GL(2) • Anna Szumowicz, Scuola Normale Superiore di Pisa

May 6
Mathematical Conversations • Discrepancy Theory and Randomized Controlled Trials • Daniel Spielman, Yale University

Joint IAS/Princeton University Number Theory Seminar • On Triple Product L Functions • Joyce Robert Getz, Duke University

Seminar on Theoretical Machine Learning • Learning Probability Distributions; What Can, What Can’t Be Done • Shai Ben-David, University of Waterloo

May 7
Computer Science/Discrete Mathematics Seminar I • Using Discrepancy Theory to Improve the Design of Randomized Controlled Trials • Daniel Spielman, Yale University

May 8
IAS/PU-Montreal-Tel-Aviv Symplectic Geometry Seminar • Spectral Characterizations of Buse and Zell Reeb Flows • Marco Mazzucchelli, École normale supérieure de Lyon

May 11
Computer Science/Discrete Mathematics Seminar I • Using Discrepancy Theory to Improve the Design of Randomized Controlled Trials • Daniel Spielman, Yale University

May 12
Number Theory Working Group • Homology Stability for Unitary Groups over S-Arithmetic Rings • Rohit Nagpal, Member, School of Mathematics

Seminar on Theoretical Machine Learning • Generative Modeling by Estimating Gradients of the Data Distribution • Stefano Ermon, Stanford University

Analysis Seminar • Quantitative Decompositions of Lipschitz Mappings • Guy C. David, Ball State University

Computer Science/Discrete Mathematics Seminar II • Convex Set Disjointness, Distributed Learning of Halfspaces, and Linear Programming • Shay Moran, Google Brain; Visitor, School of Mathematics

May 13
Mathematical Conversations • The Simplicity Conjecture • Daniel Cristofaro-Gardiner, University of California, Santa Cruz; von Neumann Fellow, School of Mathematics

May 14
Joint IAS/Princeton University Number Theory Seminar • A Geometric View on Iwasawa Theory • Mladen Dimitrov, Université de Lille

Seminar on Theoretical Machine Learning • Martzhe, the Classification Problem, and Set-Theoretic Type Theory • David McAllester, Toyota Technological Institute at Chicago

May 15
IAS/PU-Montreal-Tel-Aviv Symplectic Geometry Seminar • Reflections on Cylindrical Contact Homology • Jo Nelson, Rice University

May 18
Computer Science/Discrete Mathematics Seminar I • The Non-Stochastic Control Problem • Elad Hazan, Princeton University

Analysis Seminar • Square Function Estimate for the Cone in R^n • Hong Wang, Member, School of Mathematics

May 19
Number Theory Working Group • Density of Arithmetic Representations of Function Fields • Hélène Esnault, Freie Universität Berlin, Visiting Professor, School of Mathematics

Seminar on Theoretical Machine Learning • Neural SDEs: Deep Generative Models in the Diffusion Limit • Maxim Raginsky, University of Illinois Urbana-Champaign

May 20
Mathematical Conversations • Conley’s Fundamental Theorem of Dynamical Systems • Amie Wilkinson, University of Chicago

May 21
Joint IAS/Princeton University Number Theory Seminar • Iwasawa Theory and Bloch-Kato Conjecture for Unitary Groups • Xin Wan, Chinese Academy of Sciences

Seminar on Theoretical Machine Learning • Forecasting Epidemics and Pandemics • Roni Rosenfeld, Carnegie Mellon University

May 22
IAS/PU-Montreal-Paris-Tel-Aviv Symplectic Geometry Zoominar • Mirrors of Curves and Their Fukaya Categories • Denis Auroux, Harvard University

May 25
Analysis Seminar • An Application of Integers of the 12th Cyclotomic Field in the Theory of Phase Transitions • Alik Mazel, AMC Health
May 26
Number Theory Working Group • Efficient Primality Tests • Avi Wigderson, Herbert H. Maass Professor, School of Mathematics

May 27
Mathematical Conversations • Emerging Symmetries in Statistical Physics Systems • Hugo Duminil-Copin, Université de Genève, Institut des Hautes Études Scientifiques

May 28
Joint IAS/Princeton University Number Theory Seminar • Joint Equidistribution of Adelic Torsion Orbits and Families of Twisted L-Functions • Farrell Brumley, Université Sorbonne Paris Nord

May 29
IAS/PU-Montreal-Paris-Tel-Aviv Symplectic Geometry Zoominar • Duality for Rabinowitz–Floer Homology • Alex Oancea, Institut de Mathématiques de Jussieu-Paris Rive Gauche

June 1
Analysis Seminar • Winding for Wave Maps • Max Engelstein, University of Minnesota

June 2
Number Theory Working Group • The Kottwitz Counting Formula for Abelian Varieties • Mark Goresky, Visitor, School of Mathematics

June 3
Mathematical Conversations • Mathematics Formalization for Mathematicians • Patrick Massot, Université Paris-Sud

June 4
Joint IAS/Princeton University Number Theory Seminar • Dynamical Generalizations of the Prime Number Theorem and Disjointness of Additive and Multiplicative Actions • Florian Richter, Northwestern University

June 5
IAS/PU-Montreal-Paris-Tel-Aviv Symplectic Geometry Zoominar • Three Short Research Talks • Morgan Weiler, Joé Brendel, Abror Pirnapasov, University of California, Berkeley; University of Neuchâtel; Ruhr University Bochum

June 9
Number Theory Working Group • Motives • Pierre Deligne, Professor Emeritus, School of Mathematics

June 11
Joint IAS/Princeton University Number Theory Seminar • New Constituents on the Galois Configurations of Algebraic Integers in the Complex Plane • Vesselin Dimitrov, University of Toronto

June 12
IAS/PU-Montreal-Paris-Tel-Aviv Symplectic Geometry Zoominar • Floer Cohomology and Av. Spaces • Mark McLean, Stony Brook University

June 16
Number Theory Working Group • A Gentle Introduction to Anabelian Geometry • Remy van Dobben de Bruyn, Princeton University; Veblen Research Instructor, School of Mathematics

June 17
Mathematical Conversations • Infinite Dimensional Hamiltonian Systems: When Hard Problems Become Harder • Gigliola Staffilani, Massachusetts Institute of Technology

June 18
Joint IAS/Princeton University Number Theory Seminar • Independence of f for Frobenius Conjugacy Classes Attached to Abelian Varieties • Rong Zhou, Imperial College London

June 19
IAS/PU-Montreal-Paris-Tel-Aviv Symplectic Geometry Zoominar • Exotic Symplectomorphisms and Contact Circle Action • Igor Uljarevic, University of Belgrade

June 23
Seminar on Theoretical Machine Learning • Generalizable Adversarial Robustness to Unforeseen Attacks • Soheil Feizi, University of Maryland

June 24
Mathematical Conversations • Knot Concordance and 4-Manifolds • Lisa Piccirillo, Brandeis University, Massachusetts Institute of Technology

June 25
Seminar on Theoretical Machine Learning • Instance-Hiding Schemes for Private Distributed Learning • Sanjeev Arora, Princeton University; Distinguished Visiting Professor, School of Mathematics

June 26
IAS/PU-Montreal-Paris-Tel-Aviv Symplectic Geometry Zoominar • Distinguishing Monotone Lagrangians via Holomorphic Annuli • Ailsa Keating, University of Cambridge

School of Natural Sciences

ASTROPHYSICS ACTIVITIES

September 9
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch Discussion Colloquium • Reconstruction of Cosmological Fields in Forward Model Framework • Intensity Mapping & Galaxy Clustering • Chirag Modi, University of California, Berkeley

September 10
Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium • Teasing Out the True Milky Way • Alyssa Goodman, Harvard-Smithsonian Center for Astrophysics

September 12
Astrophysics Informal Seminar • Electromagnetic Jets and the Black Hole Shadow • Roger Blandford, Kavli Institute for Particle Astrophysics and Cosmology, Stanford University

September 17
Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium • The Galactic Center: A Laboratory for the Study of the Physics and Astrophysics of Supermassive Black Holes • Tuan Do, University of California, Los Angeles

September 19
Astrophysics Informal Seminar • Circumplanetary Disk Dynamics in the Isothermal and Adiabatic Limits • Jeffrey Fung, Member, School of Natural Sciences

September 24
Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium • Breaking Through to the Other Side of Gravitational Waves • Rana Adhikari, California Institute of Technology

September 26
Astrophysics Informal Seminar • Optimization Ideas, Algorithms, Tools, and Some Astro-Related Examples • Robert Vanderbei, Princeton University; Member, School of Natural Sciences

October 1
Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium • Finding Gravitational Waves from the Early Universe • Eiichiro Komatsu, Max Planck Institute for Astrophysics
October 3
Astrophysics Informal Seminar • Long-Period Eclipsing Systems from Kepler Data • Kento Masuda, Member, School of Natural Sciences

October 8
Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium • Cosmic Collisions – Progress in Gravitational-Wave Astronomy • Patrick Brady, University of Wisconsin-Milwaukee

October 10
Astrophysics Informal Seminar • Universal Interferometric Signatures of a Black Hole’s Photon Ring • Alex Lupsasca, Harvard University

October 15
Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium • The Continuing Search for Planet Nine • Matthew Holman, Harvard-Smithsonian Center for Astrophysics

October 17
Astrophysics Informal Seminar • Mid-band Atomic Gravitational wave Interferometric Sensor (MAGIS) • Peter Graham, Stanford University

October 21
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch • Extreme Emission Line Galaxies (EELs) as a Platinum Redshift Sample for Galaxy Clustering Measurements with LSST • Adam Broussard, Rutgers, The State University of New Jersey

October 22
Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium • Red Supergiants: New Perspectives on Dying Stars • Emily Levesque, University of Washington

October 24
Astrophysics Informal Seminar • Characterizing Star-Planet Systems with Precision Spectroscopy • Megan Bedell, Flatiron Institute, Center for Computational Astrophysics

October 28
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch • Mapping the Magnetic Interstellar Medium in Three Dimensions Over the Full Sky with Neutral Hydrogen • Susan Clark, Member, School of Natural Sciences • Decoloration from the 3D ISM • Brandon Hensley, Princeton University

October 31
Astrophysics Informal Seminar • Solar Interiors, Helioseismology and Neutrinos • Aldo Serenelli, Institute of Space Sciences, Spain

November 4
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch • Neutrino Mass and Cosmic Flows • Hongming Zhu, University of California, Berkeley • Low-z BAO Cosmology with HIRAX • Benjamin Salwanchik, Yale University

November 5
Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium • Discovery Frontiers in the New Era of Time-Domain Multi-Messenger Astrophysics • Raffaella Margutti, Northwestern University

November 7
Astrophysics Informal Seminar • Addressing the Initial Patch Problem of Inflation • Leonardo Senatore, Stanford University

November 12
Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium • CHIME: The Canadian Hydrogen Intensity Mapping Experiment • Kendrick Smith, Perimeter Institute

November 18
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch • The Likelihood for Large-Scale Structure • Giovanni Cabass, MPA • Attractors, Bifurcations and Curvature in Multi-Field Inflation • Evangelos Sfakianakis, Nikhef Amsterdam

November 19
Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium • Generation I Planets • Yangqin Wu, University of Toronto

November 21
Astrophysics Informal Seminar • Non-Gaussianity & the Spectral Till • Daniel Green, University of California, San Diego

November 26
Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium • How Do You Solve a Problem Like (Photometric) Supernovae? • Renée Hložek, University of Toronto

December 2
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch • Analytic Covariance of the Redshift-Space Galaxy Power Spectrum • Digvijay Wadekar, New York University • Interpolating the Cosmological Structure Formation with Machine Learning • Yin Li, Flatiron Institute, Center for Computational Astrophysics

December 3
Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium • Dynamics of Black Holes and Gravitational Waves • Hyung Mok Lee, Korea Astronomy and Space Science Institute

December 5
Astrophysics Informal Seminar • Studying the Magnetic Field of the Diffuse ISM in 3D • Gina Panopoulou, California Institute of Technology

December 10
Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium • Surprising Impacts of Gravity Waves • Jim Fuller, California Institute of Technology

December 12
Astrophysics Informal Seminar • Probing Micropolar of the Hot Intracluster Medium • Irina Zhuravleva, University of Chicago

December 16
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch • CMB Lensing Tomography to Z=2 with Galaxies from the unWISE Catalog • Alex Krolevski, University of California, Berkeley • New Statistical Descriptions for Non-Gaussian Cosmology • Erwan Allys, École Normale Supérieure

January 30
Astrophysics Informal Seminar • Quadruply Lensed Quasars, Extreme Debending and LIGO-mass Primordial Black Hole • Paul Schechter, Massachusetts Institute of Technology

February 6
Astrophysics Informal Seminar • Imaging Black Holes: Beyond the Shadow • Jason Dexter, University of Colorado Boulder

February 13
Astrophysics Informal Seminar • Extracting Information from AGN Variability • Michael Vogelezang, Drexel University; Member, School of Natural Sciences

February 20
Astrophysics Informal Seminar • When Stars Attack! Near-Earth Supernova Explosions Revealed by Deep-Ocean and Lunar Radioactivity • Brian Fields, University of Illinois

February 27
Astrophysics Informal Seminar • Exploring our Heliosphere from Inside-Out: Voyagers’ Journey through the Solar Wind and Beyond • Jamie Rankin, Princeton University; Princeton Plasma Physics Laboratory

March 2
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch • Galaxy Correlation Function Estimators
and Probabilistic Redshifts • Humna Awan, Rutgers, The State University of New Jersey
Constraining Cosmology from Galaxy Surveys: Combining Full-Shape and BAO Analyses • Oliver Philcox, Princeton University

March 5
Astrophysics Informal Seminar • The Origin of Multiphase Galaxy Outflow • Evan Schneider, Princeton University

March 12
Astrophysics Informal Seminar • Black Hole Entropy and Quantum Information • Juan Maldacena, Carl P. Feinberg Professor, School of Natural Sciences

March 16
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch • Effects of Overlapping Sources in Cosmic Shear Statistical Noise • Javier Sánchez, Fermilab

March 17
Astrophysics Informal Seminar • Study of White Dwarfs and Black Holes Through Astrometric Microlensing • Kailash Sahu, Space Telescope Science Institute

March 23
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch • Early Dark Energy Does Not Restore Cosmological Concordance • Colin Hill, Columbia University

March 30
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch • Blinded Challenge for Precision Cosmology with Galaxy Surveys • Mikhail Ivanov, New York University; Marko Simonović, CERN

April 6
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch • Perfectly Parallel Cosmological Simulations Using Spatial Convolving Lagrangian Acceleration • Florent Leclercq, Imperial College

April 13
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch • Description of Galaxy Distribution on Large Scales Utilizing the Equivalence Principle • Zvonimir Vlah, CERN

April 20
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch • Dark Matter Waves • Lam Hui, Columbia University

April 27
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch • Intensity Mapping with CO and CII as Probes of Primordial Non-Gaussianity • Azadeh Moradinezhad, University of Geneva

May 4
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch • A New Halo Model Formalism for the Cosmic Infrared Background (CIB) and its Correlation with the thermal Sunyaev-Zel’dovich Effect (tSZ) • Abhishek Maniyan, New York University

May 11
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch • What Can the Frontiers of Clusters Teach Us About the Dark Sector? • Omar Contigiani, Leiden University

May 18
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch • Probing the Tensor Consistency Relation with the CMB Bispectrum • Adri Dauienvoorden, Princeton University • Predicting Electron Gas into Dark Matter-only Simulations • Leander Thiele, Princeton University

June 1
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch • FlowPM: Distributed TensorFlow Implementation of the Cosmological N-body Solver • Chirag Modi, University of California, Berkeley

June 8
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch •

June 15
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch •

June 22
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch •

June 29
Institute for Advanced Study/Princeton University Early Universe/Cosmology Lunch •

HIGH ENERGY THEORY ACTIVITIES

September 11
Physics Group Meeting • Introductory Group Meeting • Juan Maldacena, Carl P. Feinberg Professor, School of Natural Sciences

September 16
High Energy Theory Seminar • The Holographic Dual of Strongly-deformed N=4 SYM Theory • Amit Sever, CERN

September 18
Physics Group Meeting • A Brief Review of some work on BPS States, Wall-Crossing, Hyperkahler Geometry, Hitchin Systems, etc. • Greg Moore, Rutgers University

September 25
Physics Group Meeting • Candy Formula and AdS Black Holes • Joonho Kim, Member, School of Natural Sciences

September 27
High Energy Theory Seminar • Aspects of Scattering Amplitudes and Moduli Space Localization • Sebastian Mizera, Member, School of Natural Sciences

September 30
High Energy Theory Seminar • General F-theory Models with SU(3) x SU(2) x U(1) / Z6 Symmetry • Andrew Turner, Massachusetts Institute of Technology

October 2
Physics Group Meeting • Hawking Radiation at Strong Coupling: A Case for Brane-world Black Holes • Jorge Santos, Junior Visiting Professor, School of Natural Sciences; University of Cambridge

October 9
Physics Group Meeting • Black Hole Images and the Photon Ring • Daniel Kapek, Member, School of Natural Sciences

October 14
High Energy Theory Seminar • Entanglement Wedge Reconstruction and the Information Paradox • Geoff Penington, Stanford University

October 16
Physics Group Meeting • Matrix Models and Minimal Liouville Gravity • Baurzhan Mukhametzhanov, Member, School of Natural Sciences

October 23
Physics Group Meeting • The Geroch Group • Robert Penna, Member, School of Natural Sciences

October 25
High Energy Theory Seminar • Correlation Functions in AdS3/CFT2 • Lorenz Eberhardt, Member, School of Natural Sciences

October 28
High Energy Theory Seminar • Dynamical Constraints on RG Flows and Cosmology • Tom Hartman, Cornell University

October 30
Physics Group Meeting • Topological Holography • Nafiz Ishtiaque, Member, School of Natural Sciences

November 1
High Energy Theory Seminar • High-Energy Conformal Bootstrap and Tauberian Theory • Baurzhan Mukhametzhanov, Member, School of Natural Sciences
<table>
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<tr>
<th>Event</th>
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<tr>
<td>June 24: Physics Group Meeting + Generalized Global Symmetries, the</td>
<td>June 24</td>
<td>University of California, Santa Barbara</td>
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<td>Weak Gravity Conjecture, and the Completeness Hypothesis + Tom</td>
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<tr>
<td>Rudelius, Member, School of Natural Sciences</td>
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<tr>
<td>July 15: Physics Group Meeting + Rotations of an Axion Field in the</td>
<td>July 15</td>
<td>Princeton University</td>
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<tr>
<td>Early Universe + Keiske Harigaya, Member, School of Natural Sciences</td>
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<tr>
<td>July 20: High Energy Theory Seminar + Non-perturbative Studies of JT</td>
<td>July 20</td>
<td>University of Southern California</td>
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<tr>
<td>Gravity and Supergravity using Minimal Strings + Clifford V. Johnson,</td>
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<tr>
<td>Princeton University</td>
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<tr>
<td>July 22: Physics Group Meeting + Reconstructing the Black Hole</td>
<td>July 22</td>
<td>Rutgers University</td>
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<tr>
<td>Interior with Modular Flow + Yiming Chen, Princeton University</td>
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<tr>
<td>July 24: High Energy Theory Seminar + Many Body Scars as a Group</td>
<td>July 24</td>
<td>Rutgers University</td>
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<tr>
<td>Invariant Sector of Hilbert Space + Kiryl Pakrouski, Princeton</td>
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<td>University of California, Santa Barbara</td>
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<tr>
<td>August 10: High Energy Theory Seminar + Stellar Basins of</td>
<td>August 10</td>
<td>Weizmann Institute</td>
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<tr>
<td>Gravitationally Bound Particles + Ken Van Tilburg, KITP, University</td>
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<td>of California, Santa Barbara</td>
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<tr>
<td>August 17: High Energy Theory Seminar + Enhanced Corrections to the</td>
<td>August 17</td>
<td>Weizmann Institute</td>
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<tr>
<td>Page Curve near Holonomic Entanglement Transitions + Xi Dong,</td>
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<tr>
<td>University of California, Santa Barbara</td>
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<tr>
<td>August 24: High Energy Theory Seminar + An Update on Exact WKB and</td>
<td>August 24</td>
<td>Université de Sherbrooke</td>
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<td>Supersymmetric Field Theory + Andy Neitzke, Yale University</td>
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<tr>
<td>August 28: High Energy Theory Seminar + Partition Functions of the</td>
<td>August 28</td>
<td>Weizmann Institute</td>
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<tr>
<td>Tensionless String + Lorenz Eberhardt, Member, School of Natural</td>
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<td>Sciences</td>
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THE SIMONS CENTER FOR SYSTEMS BIOLOGY ACTIVITIES


November 19: Joshua Ledeburg – John von Neumann Symposium: Towards Quantitative Biology (at The Rockefeller University) + Primary Productivity of the Planet + Paul Falkowski, Rutgers Energy Institute, Rutgers University + The Biomass Distribution on Earth + Ron Milo, Weizmann Institute of Science + Structure and Dynamics of Microbial Ecosystems in Sediment + Alexander Petroff, Clark University + Tigers in the 21st Century: Survival or Extinction? + Uma Ramakrishnan, National Centre for Biological Sciences; Wellcome Trust/DBT India Alliance + Biodiversity Change During the Anthropocene + Mark Vellend, Université de Sherbrooke

December 6: The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology (Virtual Seminar) + Land, irrigation water, greenhouse gas, and reactive nitrogen burdens of meat, egg, and dairy production in the United States + Gidon Eshel, Bard College

February 5: The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology (Virtual Seminar) + Associative Memory of Structured Knowledge + Julia Steinberg, Harvard University

February 10: The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology (Virtual Seminar) + Kinetic Uncertainty Relations for the Control of Stochastic Reaction Networks + Jiawei Yan, Harvard University

May 7: The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology (Virtual Seminar) + Mathematical modeling of ageing and depression + Omer Karin, Weizmann Institute

April 1: The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology (Virtual Seminar) + Collective Behavior of Bacteria and Robots in Complex and Dynamical Environments + Trung Phan, Princeton University


March 4: The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology (Virtual Seminar) + Stochastic Dynamics Applied to Biological Systems + Nicolas Lenner, Max-Planck Institute for Dynamics and Self-Organization, Göttingen, Germany


April 1: The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology (Virtual Seminar) + Collective Behavior of Bacteria and Robots in Complex and Dynamical Environments + Trung Phan, Princeton University


May 7: The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology (Virtual Seminar) + Mathematical modeling of ageing and depression + Omer Karin, Weizmann Institute
June 18
Cancer Convergence Education Network (Virtual Conference). Progress in Immunotherapy + A role and rationale for neoadjuvant immune checkpoint blockade in cancer therapy + Suzanne Topalian, Johns Hopkins Medicine + How does checkpoint blockade change the repertoire and genetic programming of neoantigen-specific T cells? + Drew Pardoll, Johns Hopkins Medicine + Immune Checkpoint Blockade in Cancer Therapy: New insights into therapeutic mechanisms + James Allison, University of Texas, MD Anderson Cancer Center + From the Clinic to the Lab: Investigating Mechanisms of Response and Resistance to Immune Checkpoint Therapy + Padmanee Sharma, University of Texas, MD Anderson Cancer Center + Decoding the cellular adaptive immune response to cancer + Harlan Robins, Adaptive Biotechnologies

August 12
CCEN Virtual Meeting + Using evolutionary theory to gain insights into clonal hematopoiesis and blood cancer risk + Jamie Blundell + Synonymous mutations reveal genome-wide driver mutation rates in healthy tissues + Gladys Poon + Pregnancy-Specific Glycoproteins talk + Arnold J. Levine, Professor Emeritus, School of Natural Sciences + Description of New Convergence Teams Project + Arnold J. Levine, Professor Emeritus, School of Natural Sciences

School of Social Science

September 20
Social Science Orientation Session

September 23
Social Science Seminar + Involving Healing, or How to Think Therapeutically + Ed Cohen, Rutgers, The State University of New Jersey; Member, School of Social Science

September 30
Social Science Seminar + Hope for a Cure: AIDS Activists, Beautiful Lars, and the World’s First “Edited” Children + Eben Kirksey, Deakin University; Member, School of Social Science

October 2
Economy and Society Seminar + Boom, Doom, Gloom + Readings curated by Benjamin Braun, Max-Planck-Institut für Gesellschaftsforschung, and Sarah Quinn, University of Washington; Members, School of Social Science

Economy and Society Film Series + The Big Short, directed by Adam McKay; post-screening discussion led by Benjamin Braun, Max-Planck-Institut für Gesellschaftsforschung, and Sarah Quinn, University of Washington; Members, School of Social Science

October 7
Social Science Seminar + Unpayable Debts, Emancipatory Debts. The Political and Moral Economies of Women’s Debt and Women’s Bodies + Isabelle Guérin, Institut de Recherche pour le Développement, Paris; Member, School of Social Science

October 8
Credit and Finance Working Group

October 14
Social Science Seminar + Of Other Brotherhoods: Mafia, Freemasons, and the Changing Criminalization of Ritual Relationships in Sicily + Naor H. Ben-Yehoyada, Columbia University; Member, School of Social Science

October 16
Economy and Society Seminar + From the Welfare State to the Debtfree State + Readings curated by Lena Lavinas, Universidade Federal do Rio de Janeiro, and Chloe Thurston, Northwestern University; Members, School of Social Science

October 18
Guest Seminar United Nations Workshop + Private Debt and Human Rights + Juan Pablo Bohoslavsky, Office of the UN’s High Commissioner on Human Rights

October 21
Social Science Seminar + In the Margins of Medical Evidence: Expert Witnessing and State Violence in Turkey + Başak Can, Koç Universities; Member, School of Social Science

October 28
Social Science Seminar + Credit from the State, Credit to the State + Sarah Quinn, University of Washington; Member, School of Social Science

Guest Seminar + Rights, Reform, and Contestation: Land Dispossession, Gender, and Alternative Models for Justice + Souad Eddouada, Ibn Tofail University, Morocco

October 30
Current Issues Seminar + Başak Can, Koç Universities, and Latif Tas, SOAS University of London; Members, School of Social Science

Economy and Society Seminar + Resistance and Redemption: On Debt, Finance, and Mobilization + Readings curated by Benjamin Lemoine, Université Paris-Dauphine, and Z. Fareen Parvez, University of Massachusetts, Amherst; Members, School of Social Science; screening of scenes from documentary film Briks, directed by Quentin Ravelli; post-screening discussion led by Quentin Ravelli

November 4
Social Science Seminar + Autochthony, Line Systems and State Building in Nigeria + Jeremiah O. Arowosogbe, University of Ibadan; Member, School of Social Science

November 6–7
Workshop on Social and Ethical Challenges in Machine Learning + Organized by Sanjeev Arora, Princeton University; Distinguished Visiting Professor, School of Mathematics, Didier Fassin, James D. Wolfensohn Professor, School of Social Science, Jacob Gates Foster, University of California, Los Angeles, and Marion Fourcade, University of California, Berkeley; Visiting Professor, School of Social Science

November 11
Social Science Seminar + The Ethical Stance and the Possibility of Critique + Webb Keane, University of Michigan, Ann Arbor; Member, School of Social Science

November 13
Economy and Society Seminar + Reparative Justice as Historical Redress + Readings curated by Naor H. Ben-Yehoyada, Columbia University, Robert Karl, Institute for Advanced Study, and Latif Tas, SOAS University of London; Members, School of Social Science

Economy and Society Film Series + Valley of Saints, directed by Musa Syed; post-screening discussion led by Z. Fareen Parvez, University of Massachusetts, Amherst; Member, School of Social Science, and Nafeesa Syeed, Director’s Visitor, Institute for Advanced Study

November 15–16
Crisis and Critique Workshop + Organized by Axel Honneth, Goethe-Universität Frankfurt and Columbia University, and Didier Fassin, James D. Wolfensohn Professor, School of Social Science

November 18
Social Science Seminar + Reinventing Oneself during the Crisis. Autonomy and Dependencies between Conflict and Solidarity + Susana Narotzky, Universitat de Barcelona; Member, School of Social Science
November 25
Social Science Seminar • *Wealth Regimes: The Political Economy of Asset Management* • **Benjamin Braun**, Max-Planck-Institut für Gesellschaftsforschung; Member, School of Social Science

November 26
Economy and Society Seminar • Framing Economic Lives • Readings curated by **Isabelle Guérin**, Institut de Recherche pour le Développement, Paris; **Susana Narotzky**, Universitat de Barcelona; and **Federico Neiburg**, Universidade Federal do Rio de Janeiro; Members, School of Social Science

December 2
Social Science Seminar • *Market Logics, Minority Rights, and American Political Development* • **Chloe Thurston**, Northwestern University; Member, School of Social Science

December 9
Social Science Seminar • *The Crystalline Medium: Computation and Its Consequences* • **Alexander R. Galloway**, New York University; Member, School of Social Science

December 10
Credit and Finance Working Group • *The Missing Movement: Credit, Debt Relief, and the Limits of Anti-Discrimination Politics* • **Chloe Thurston**, Northwestern University; Member, School of Social Science; **Emily Zuckin**, Johns Hopkins University; and **Marion Fourcade**, University of California, Berkeley; Visiting Professor, School of Social Science

Economy and Society Film Series • *Graduation*, directed by **Cristian Mungiu**, post-screening discussion led by **Naor H. Ben-Yehoyada**, Columbia University and **Virag Molnar**, The New School; Members, School of Social Science

December 16
Social Science Seminar • *Class Trips Beyond Borders: State-Sponsored Heritage Tourism and Ethnic Nationalism* • **Virag Molnar**, The New School; Member, School of Social Science

January 21
Social Science Seminar • *What is Sudanese Political Economy?: Reflections on the Crises of the 1970s* • **Alden H. Young**, University of California, Los Angeles; Member, School of Social Science

Credit and Finance Working Group • *Searching Life in Economy and Ethnography* • **Isabelle Guérin**, Institut de Recherche pour le Développement, Paris, and **Federico Neiburg**, Universidade Federal do Rio de Janeiro; Members, School of Social Science

January 27
Social Science Seminar • *The Cancal Colony: Prison before the Penitentiary in North America* • **Wendy Warren**, Princeton University; Member, School of Social Science

January 29
Current Issues Seminar • *Focus on Brazil* • **Lena Lavinas** and **Federico Neiburg**, Universidade Federal do Rio de Janeiro; Members, School of Social Science

Economy and Society Seminar • *Global Monetary Hierarchies* • **Pierre-Olivier Gourninches**, University of California, Berkeley; readings curated by **Benjamin Braun**, Max-Planck-Institut für Gesellschaftsforschung; **Horacio Ortiz**, East China Normal University, and **Alden H. Young**, University of California, Los Angeles; Members, School of Social Science

February 3
Social Science Seminar • *Suspects’ Appearance, Origin, and DNA in France. Elements for a Political Conception of Privacy* • **Joëlle Vailly**, Centre National de la Recherche Scientifique, Paris; Member, School of Social Science

February 10
Social Science Seminar • *#Help: The Digital Transformation of Humanitarianism and the Governance of Populations* • **Fleur Johns**, University of New South Wales, Sydney; Member, School of Social Science

February 11
Credit and Finance Working Group • *Sex Debt: Coerced Bodies, Desiring Bodies in Rural South India* • **Isabelle Guérin**, Institut de Recherche pour le Développement, Paris; Member, School of Social Science

February 12
Economy and Society Seminar • *Temporalities of Economy and Society* • readings curated by **Herbert Docena**, University of the Philippines Diliman; **Fleur Johns**, University of New South Wales, Sydney, and **Virag Molnar**, The New School; Members, School of Social Science

Economy and Society Film Series • *People’s Republic of Desire*, directed by **Hao Wu**; post-screening discussion led by **Horacio Ortiz**, East China Normal University; Member, School of Social Science, and **Julia Chuang**, Boston College; Visitor, School of Social Science

February 18
Social Science Seminar • *The Rise of Venture Capital, the Return of Inequality, and the Demise of Innovation in the United States, 1936–1982* • **Julia Ott**, The New School; Member, School of Social Science

February 24
Social Science Seminar • *Gate of Tears: Migration and Impasse in Yemen and the Horn of Africa* • **Nathalie M. Peutz**, New York University Abu Dhabi; Member, School of Social Science

February 26
Current Issues Seminar • *Focus on Sudan* • **Alden H. Young**, University of California, Los Angeles; Member, School of Social Science

Economy and Society Seminar • *Money, Circuits, and Social Relations* • **Viviana Zelizer**, Princeton University; readings curated by **Marion Fourcade**, University of California, Berkeley; Visiting Professor, School of Social Science, **Federico Neiburg**, Universidade Federal do Rio de Janeiro; Member, School of Social Science, and **Frederick F. Wherry**, Princeton University; Visitor, School of Social Science

March 2
Social Science Seminar • *Orndal Citizenship* • **Marion Fourcade**, University of California, Berkeley; Visiting Professor, School of Social Science

March 4–5
Workshop on Machine Learning, Theory, and Method in the Social Sciences • Organized by **Sanjeev Arora**, Princeton University; Distinguished Visiting Professor, School of Mathematics, **Didier Fassin**, James D. Wolfensohn Professor, School of Social Science, **Jacob Gates Foster**, University of California, Los Angeles, and **Marion Fourcade**, University of California, Berkeley; Visiting Professor, School of Social Science

March 4
Public Lecture • *Re-Imagining the Social Sciences in the Age of AI: A Cross-Disciplinary Conversation* • **Elizabeth Bruch**, University of Michigan, and **Thomas Griffiths**, Princeton University; moderated by **Jacob Gates Foster**, University of California, Los Angeles

March 9
Social Science Seminar • *The Debt Economy in Urban India* • **Z. Fareen Parvez**, University of Massachusetts, Amherst; Member, School of Social Science

March 11
Economy and Society Seminar • *International Migrations, Gender and Economy* • **Anne-Claire Defossez**, Institute for Advanced Study and **Ravi Kanbur**, Cornell University; Visitors, School of Social Science, and **Didier Fassin**, James D. Wolfensohn Professor, School of Social Science

*From this point on, the seminars took place online with virtual participation via Zoom.*
March 25
Economy and Society Seminar • Religion and Moral Economy • Readings curated by Webb Keane, University of Michigan, Ann Arbor and Nathalie M. Peutz, New York University Abu Dhabi; Members, School of Social Science, and Justin Stearns, New York University Abu Dhabi; Member, School of Historical Studies

March 30
Social Science Seminar • Parallel State and Governmentality: Kandish Response to Authoritarianism • Latif Tas, SOAS University of London; Member, School of Social Science

March 31
Credit and Finance Working Group • Discussion of readings by Benjamin Lemoine, Université Paris-Dauphine; Member, School of Social Science

April 6
Social Science Seminar • The Digitalization of Money in China • Horacio Ortiz, East China Normal University; Member, School of Social Science

April 13
Social Science Seminar • From Rights to Entitlements to Assets: The Warping of Welfare Regimes • Lena Lavinas, Universidade Federal do Rio de Janeiro; Member, School of Social Science

April 7
Credit and Finance Working Group

April 20
Social Science Seminar • Embedded (and dis-embedded) Sovereignty. Government Debt, New York Law and Financial Order • Benjamin Lemoine, Université Paris-Dauphine; Member, School of Social Science

April 22
Social Science Seminar • Writing History from Colombia’s Acatraz • Robert Karl, Institute for Advanced Study; Member, School of Social Science

April 22
Economy, Society and Covid-19: Collective Project around the Pandemic • Planning Meeting

April 27
Social Science Seminar • Life, Economy and Economic Emergencies • Federico Neiburg, Universidade Federal do Rio de Janeiro; Member, School of Social Science

May 4
Social Science Seminar • Sexual Violence and the State: A Racial History of Legal Castration in North America • Greta LaFleur, Yale University; Member, School of Social Science

May 5
Credit and Finance Working Group

May 11
Social Science Seminar • ‘We are not begrudged’: Recognition, Resentment, and the Rise of ‘Market-based’ Global Environmental Regulation • Herbert Docena, University of the Philippines Diliman; Member, School of Social Science

Economy and Society Seminar • Race and Capitalism • Michael C. Dawson, University of Chicago, and Megan Ming Francis, University of Washington

May 12
Credit and Finance Working Group

May 13
Social Science Seminar • The New Technologies: Science and Ethics in the Obama Administration • Alondra Nelson, Harold F. Linder Professor, School of Social Science

May 18
Social Science Seminar • Beveridgean Unemployment Gap • Pascal Michaillat, Brown University; Member, School of Social Science

May 19
Credit and Finance Working Group

June 2
Credit and Finance Working Group

Director’s Office Events

September 23
Member Welcome Reception

September 28
Member Family Barbeque

October 4
Edward T. Cone Concert Series • Meredith Monk and Company

October 5
Edward T. Cone Concert Series and Talk • Meredith Monk and Company

October 11
Friends Dinner with a Member • The Story of Trigonometry: Revolutions in the Heavens, and on Earth • Glen Van Brummelen, Queen University Canada; Member, School of Historical Studies

October 19
Family Science Talk • Einstein’s Dream • Robbert Dijkgraaf, IAS Director and Leon Levy Professor

October 20
Princeton Symphony Orchestra Chamber Series • Music for Oboe and Strings

October 25
Public Lecture • Primes and Knots • Akshay Venkatesh, Robert and Luisa Fernholz Professor, School of Mathematics

October 31
Institute Community Halloween Party

November 1
Friends Talk • Black Metaphors: How Modern Racism Emerged from Medieval Race-Thinking—and Why It Matters • Cord Whitaker, Wellesley College; Member, School of Historical Studies

November 15
Edward T. Cone Concert Series • Conrad Tao

November 16
Edward T. Cone Concert Series and Talk • Conrad Tao

November 20
S.T. Lee Public Lecture • Architecture in Two Dimensions: The Case for and Against Drawing • Alina Payne, Harvard University

November 21
Friends Circle Dinner • Spolia • Nora Okka, Director’s Visitor

November 22
Friends Lunch with a Member • The Road to Gödel’s Incompleteness Theorems • Juliette Kennedy, University of Helsinki; Visitor, School of Historical Studies

November 24
Princeton Symphony Orchestra Chamber Series • The Ups and Downs

December 4
Friends Public Lecture • What Is the Value of the Humanities? How We Read (and Write) Today • Suzanne Conklin Akbari, Professor, School of Historical Studies

December 13
Institute Community Reception Celebrating Freeman J. Dyson’s 96th Birthday

December 19
Institute Community Holiday Party

January 17
Friends Lunch with a Member • Credit from the State, Credit to the State • Sarah Quinn, University of Washington; Member, School of Social Science

January 29
Friends Talk • Elit and Women • Lyndall Gordon
January 31
Edward T. Cone Concert Series + Vicki Ray and Flux Quartet

February 1
Edward T. Cone Concert Series and Talk + Vicki Ray and Flux Quartet

February 5
Impact of the Past Lecture + Anti-Semitism—Past and Present + Karina Urbach, Visitor, School of Historical Studies; Daniel Finkelstein, Julie Gottlieb, University of Sheffield; Deborah Lipstadt, Emory University

February 19
Institute Community Reception Celebrating Enrico Bombieri’s Crafoord Prize

February 21
Friends Lunch with a Member + A Tale of Two Camps: Yemeni Refugees and Ethiopian Migrants in the Horn of Africa + Nathalie Peutz, New York University Abu Dhabi; Member, School of Social Science

February 22
Midwinter Party for Faculty, Members, and Staff

February 28
Artist-in-Residence Special Presentation + Farmhouse/Whorehouse: an Artist Lecture by Suzanne Bocanegra Starring Lili Taylor + Suzanne Bocanegra; Lili Taylor

March 6
Friends Dinner with a Member + Global Hunger/Scientific Solutions? A “Universal” Solution to End World Hunger + Gabriela Soto Laveaga, Member, School of Historical Studies

May 8
Friends Lunch with a Member + Math, Shadows, and Digital Sundials + Silvia Ghinassi, Member, School of Mathematics

May 15
Friends Lunch with a Member + Will I Have to Mortgage My House? Reflections on Gene Therapy, Innovation, and Inequality + Eben Kirksey, Deakin University; Member, School of Social Science

May 22
Friends Lunch with a Member + Victorian Fiction and the Location of Experience + Adela Pinch, University of Michigan; Visitor, School of Social Science

May 29
Friends Lunch with a Member + Sudan in a Time of Revolution + Alden H. Young, University of California, Los Angeles; Member, School of Social Science

July 16
Friends Talk + Atomic Spy: The Dark Lives of Klaus Fuchs + Nancy Greenspan