Logic

Carlson, Timothy　　　PhD: University of Minnesota (1978)

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Research: *Combinatorics – Foundations of Mathematics & Logic – Ramsey Theory – Distributed Systems – Infinitary Combinatorics – Inner Model Theory*

Friedman, Harvey　　PhD: Massachusetts Institute of Technology (1967)

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Research: *Foundations Of Mathematics (Emeritus)*

Miller, Chris　　PhD: University of Illinois at Urbana-Champaign (1994)

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Research: *Logic – Model Theory – Applications to Analytic Geometry & Geometric Measure Theory*

Algebra

Shapiro, Daniel　　PhD: University of California at Berkeley (1974)

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Research: *Quadratic Forms (Emeritus)*

Herzog, Ivo　　　PhD: University of Notre Dame (1989)

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Research: *Ring Theory – Module and Representation Theory – Category Theory*

Rizvi, Syed Tariq　　　PhD: McMaster University (1981)

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Research: *Theory of Rings and Modules – Injective/Projective Modules – Baer Modules and Rings – Rickart Modules – Ring and Module Hulls and their applications.*

Roman, Cosmin　　　PhD: The Ohio State University (2004)

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Research: *Ring Theory – Module Theory – Injectivity-Like Properties – Relations Between Modules and Their Endomorphisms Ring – Theory of Rings and Modules*

Yousif, Mohamed　　　PhD: University of Calgary (1986)

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Research: *Rings and Modules – Injective and Continuous Rings and Modules – Pseudo and Quasi-Frobenius Rings*

Gregory, Thomas　　　PhD: Yale University (1977)

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Research: *Algebra – Graded Lie Algebras over Algebraically Closed Fields of Prime Characteristic*

Loper, Kenneth　　　PhD: University of Wisconsin (1985)

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Research: *Commutative Rings – Nagata & Kronecker Function Rings – Prüfer-like and almost Dedekind domains*

Number Theory

Cogdell, James　　　PhD: Yale University (1981)

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Research: *Number Theory - Analytic Number theory, L-functions - Converese Theorems.*

Flicker, Yuval　　　PhD: University of Cambridge (1978)

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Research: *Number Theory - Automorphic Forms - Orbital Integrals, Trace Formulas - Arithmetic Groups*

Goss, David　　　PhD: Harvard University (1977)

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Research: *Algebraic Number Theory - Function Fields – L-Series – Carlitz and Drinfel'd Modules.*

Hiary, Ghaith　　　PhD: University of Minnesota (2008)

COLUMBUS　　(arriving Autumn 2013)　　hiaryg@gmail.com

Research: *Computational number theory, analytic number theory, random matrix models for L-functions, asymptotic analysis & interests in probability and numerical analysis.*

Holowinsky, Roman　　　PhD: Rutgers University (2006)

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Research: *Number Theory: Analytic Methods - Automorphic forms, L-functions - Sieve Methods - Quantum Unique Ergodicity*

Luo, Wenzhi　　　PhD: Rutgers University (1993)

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Research: *Number Theory - Analytic and Arithmetic Theory of Automorphic Forms and Automorphic L-Functions*

Sinnott, Warren　　　PhD: Stanford University (1974)

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Research: *Algebraic Number Theory - Iwasawa Theory - Cyclotomic Fields - p-adic L-functions*

Friesen, Christian　　　PhD: Brown University (1989)

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Research: *Algebraic & Computational Number Theory: continued fractions - class groups in quadratic function fields.*

Algebraic Geometry

Anderson, David — PhD: University of Michigan (2009)
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Research: *Algebraic geometry, combinatorics, and representation theory – Schubert varieties and toric varieties – Equivariant cohomology and its applications*

Ban, Chunsheng — PhD: Purdue University (1990)
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Research: *Algebraic Geometry - Singularity Theory -Mathematical Finance.*

Castravet, Ana-Maria — PhD: MIT (2002)
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Research: *Algebraic Geometry - Birational Geometry, Moduli Spaces, Rational Curves - Related Arithmetic Aspects, Mori Spaces*

Clemens, Herb — PhD: University of California at Berkeley (1966)
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Research: *Algebraic Geometry - Geometry and deformation theory of complex projective varieties, Hodge theory, Algebraic Cycles*

Joshua, Roy — PhD: Northwestern University (1983)
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Research: *Algebraic and Arithmetic Geometry - K-Theory - Singular Varieties - Computational aspects of geometry, Quantum computation*

Macri, Emanuele — PhD: SISSA (2006)
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Research: *Algebraic Geometry & Homological Algebra – Derived categories of coherent sheaves on algebraic varieties*

Tseng, Hsian-Hua — PhD: University of California at Berkeley (2005)
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Research: *Algebraic Geometry - Symplectic Topology & Geometry – Mirror Symmetry – Gromov-Witten Theory*

Caibar, Mirel — PhD: University of Warwick (1999)
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Research: *Algebraic Geometry – Singularity Theory – Hodge Theory*

Kennedy, Gary — PhD: Columbia University (1981)
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Research: *Algebraic Geometry - Enumerative geometry - Intersection theory*

McEwan, Lee — PhD: Columbia University (1985)
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Research: *Algebraic Geometry - Topology of Algebraic Singularities*

Topology

Broaddus, Nathan — PhD: Columbia University (2003)
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Research: *Geometric Group Theory - Topology - Low-dim Topology*

Burghelea, Dan — PhD: Romanian Academy (1968)
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Research: *Differential Topology - Geometry – Morse Theory – Topological Data Analysis*

Davis, Michael — PhD: Princeton University (1975)
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Research: *Topology - Geometric Group Theory - Aspherical Manifolds & Spaces - Non-positive Curvature*

Fiedorowicz, Zbigniew — PhD: University of Chicago (1975)
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Research: *Algebraic Topology – Algebraic K-theory – Homotopy theory – Quantum Groups – Category Theory*

Kerler, Thomas — PhD: ETH-Zurich - Theoretical Physics (1992)
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Research: *Topology - Algebra - 3-dim Manifolds, Knots, Topological Quantum Field Theories - Reps of Mapping Class Groups*

Lafont, Jean-Francois — PhD: University of Michigan (2002)
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Research: *Topology - Differential Geometry - Geometric Group Theory - K-Theory*

Ogle, Crichton — PhD: Brandeis University (1984)
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Research: *Topology - K-Theory*

Chmutov, Sergei — PhD: Moscow State University (1985)
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Research: *Algebraic Geometry and Topology – Knot & Graph Theory*

Hays, Thomas — PhD: University of Tennessee, Knoxville (1971)
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Research: *Semigroups*

Marcum, Howard — PhD: Indiana University (1971)
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Research: *Topology - Homotopy Theory - Hopf Invariants*

Rao, Vidhyanath — PhD: Case Western Reserve (1981)
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Research: *Topology - Homotopy Theory - K-Theory*

Yau, Donald — PhD: Massachusetts Institute of Technology (2002)
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Research: Topology – Algebra – Hom-Lie algebras – Deformations

Differential Geometry

Derdzinski, Andrzej — PhD: Uniwersytet Wrocławski (1976)
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Research: Differential Geometry - Einstein Manifolds

Guan, Bo — PhD: University of Massachusetts (1992)
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Research: Partial Differential Equations - Geometric Analysis

Zheng, Fangyang — PhD: Harvard University (1989)
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Research: Differential Geometry - Kaehler and Hermitian geometry - Nonpositively Curved Manifolds, Rigidity, Submanifolds

Stenzel, Matthew — PhD: Massachusetts Institute of Technology (1990)
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Research: Differential Geometry - Several Complex Variables

Wu, Damin — PhD: Massachusetts Institute of Technology (2005)
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Research: Differential Geometry - Complex Geometry

Combinatorics, Computational Geometry & Finite Groups

Kahle, Matthew — PhD: University of Washington (2007)
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Research: Combinatorics – Probability Theory – Geometric Group Theory – Mathematical Physics – Topology

Mémoli, Facundo — PhD: University of Minnesota (2005)
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Research: Shape comparison & Matching – Computational Topology – Topological data analysis – Machine learning, clustering.

Milne, Stephen — PhD: University of California, San Diego (1976)
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Research: Algebraic Combinatorics - Elliptic Functions, Continued Fractions, & Multiple Basic Hypergeometric Series - Generalized Macdonald Identities - Sums of Squares

Nguyen, Hoi — PhD: Rutgers University (2010)
COLUMBUS — (arriving Autumn 2013)
Research: Combinatorics - Probability Theory - Random Matrices - Number Theory

Solomon, Ronald — PhD: Yale University (1971)
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Research: Theory of Finite Groups - Structure and Representation Theory of Finite Groups and Finite-Dimensional Algebra - Geometries Associated with Groups

Maharry, John — PhD: The Ohio State University (1996)
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Research: Graph Theory - Combinatorics

Real Analysis

Costin, Ovidiu — PhD: Rutgers University (1995)
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Research: Analysis - Asymptotics, Borel Summability, Analyzable Functions - Applications to PDE and difference equations, - Time dependent Schrödinger equation, Surreal numbers.

Mityagin, Boris — PhD: Moscow State University (1963)
COLUMBUS — borismit@math.osu.edu — 614-292-5796
Research: Functional Analysis - Schroedinger Equations

Lang, Jan — PhD: Charles University, Prague (1996)
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Research: Analysis - Differential Equations - Harmonic Analysis - Function Spaces – Integral Inequalities – PDE - Function Theory

Complex Analysis

Koenig, Kenneth — PhD: Princeton University (2000)
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Research: Several Complex Variables – Szegő & Bergman Projections – $\bar{\partial}$-Neumann problem

McNeal, Jeffery — PhD: Purdue University (1988)
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Research: Several Complex Variables – Cauchy-Riemann Complexes –L^2 -Cohomology on Complete Manifolds – Bergman Projections – $\bar{\partial}$-Neumann problem

Vivas, Liz Raquel — PhD: University of Michigan (2009)
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Research: Holomorphic Dynamical Systems – Several Complex Variables – Complex Geometry & Affine Algebraic Geometry – Monge-Ampere equations and CR manifolds.

Partial Differential Equations

Costin, Rodica
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Research: *Partial Differential Equations - Difference Equations, Orthogonal Polynomials. - Asymptotic Analysis*

Keyfitz, Barbara
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Research: *Partial Differential Equations - Non-Linear PDE - Hyperbolic Conservation Laws*

Kodama, Yuji
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Research: *Differential Equations, Mathematical Physics - Integrable Systems, Nonlinear PDEs - Lie Algebras, Field Theories - Applications to Physical and Engineering Problems - Topological Questions Related To Differential Equations*

Tanveer, Saleh
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Research: *Applied Mathematics - Asymptotics - Nonlinear Free boundary problems in Fluid Mechanics and Crystal Growth - PDEs in Fluid Mechanics and Mathematical Physics - Singularity and regularity questions in PDEs*

Tian, Fei-Ran
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Research: *Partial Differential Equations - Zero Dispersion & Semi-Classical Limits - Whitham Equations, Modulation of Dispersive Oscillations - Free Boundary Problems*

Huang, Yong
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Research: *Differential Equations - Optimal Control*

Mathematical Biology

Best, Janet
PhD: Cornell University (2004)
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Research: *Applied Mathematics - Mathematical Biology - Dynamical Systems – Circadian Rhythms – Probability Theory – Stochastic Processes on Random Graphs*

Dawes, Adriana
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Research: *Mathematical Biology – Mathematical Modeling of Cell Polarization & Chemotaxis – Differential Equations*

Friedman, Avner
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Research: *PDEs - Mathematical Biology – Stochastic differential equations – Control Theory – Free Boundary Problems*

Golubitsky, Martin
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Research: *Dynamical Systems - Bifurcation Theory - Networks, Neuroscience – Symmetry in Chaos*

Hamilton, Ian
PhD: Simon Fraser University - Biology (2002)
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Research: *Behavioral Ecology – Coerced Cooperation – Evolution of Cooperative Behavior – Mathematical Modeling*

Lou, Yuan
PhD: University of Minnesota (1995)
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Research: *Partial Differential Equations - Applications in Population Biology - Nonlinear Elliptic and Parabolic Systems*

Terman, David
PhD: University of Minnesota (1980)
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Research: *Applied Mathematics - Differential Equations – Mathematical Biology – Dynamical Systems – Computational Neuroscience*

Tien, Joseph
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Research: *Mathematical Biology – Models of Infectious Disease Dynamics – Differential Equations – Parameter Estimation – Neuroscience*

Xue, Chuan
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Research: *Mathematical Biology & Medicine – Multiscale & hybrid modeling – Computation & Analysis – Moving boundary problems – Phase behavior & Stochastic methods in Biology*

Numerical Analysis

Baker, Gregory
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Research: *Numerical Analysis - Scientific Computation - Computational Fluid Dynamics – Free Surface Flows & Flows with Vorticity – Ocean Wave Dynamics*

Chou, Ching-Shan
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Research: *Computational & Mathematical Biology – Systems Biology of Cell Polarity – Numerical Algorithms for Hyperbolic Problems – Conservation Schemes & Laws*

Overman, Edward
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Research: *Applied Mathematics – Numerical Analysis – Scientific Computing – Dynamical Systems & Chaos*

Applied Mathematics
Mathematical Physics

Dynin, Alexander   PhD: Moscow State University (1958)

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Research: *Mathematical Physics – Functional Analysis – Global Analysis – Quantum field theory – Applied Mathematics – Partial Differential Equations*

Feinberg, Martin   PhD: Princeton University (1962)

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Research: *Applied Mathematics – Complex Systems in Chemical Engineering – Chemical Reaction Network Theory*

Gerlach, Ulrich   PhD: Princeton University (1968)

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Research: *Mathematical Physics – General Relativity – Quantum Theory in Curved Spacetime – Gravitation via Quantum Mechanics – Astrophysics*

Abdalkhani, Javad   PhD: Dalhousie University (1983)

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Research: *Applied Mathematics - Integral Equations - Numerical Analysis*

Pandey, Bishun   PhD: Banaras Hindu University (1980)

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Research: *Applied Mathematics*

Probability Theory

Falkner, Neil   PhD: University of British Columbia (1978)

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Research: *Probability Theory – Brownian Motion*

March, Peter   PhD: University of Minnesota (1983)

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Research: *Brownian Motion on Manifolds – Measure-Valued Diffusion – Applied Probability – Probability Theory*

Pittel, Boris   PhD: Leningrad University, (1962?)

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Research: *Probability Theory – Analysis of Combinatorial Algorithms – Random Graphs & Matrices – Statistical Mechanics (Emeritus)*

Stan, Aurel   PhD: Louisiana State University (1999)

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Research: *Stochastic Analysis – Harmonic Analysis – Quantum Probability – Wick Products*

Ergodic Theory

Bergelson, Vitaly   PhD: Hebrew University of Jerusalem (1984)

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Research: *Ergodic Theory – Combinatorics – Ergodic Ramsey Theory – Polynomial Szemeredi Theorems – Number Theory*

Leibman, Alexander   PhD: Israel Institute of Technology (1995)

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Research: *Ergodic Theory – Dynamics on Nil-Manifolds – Polynomial Szemerédi & van der Waerden Theorems*

Shah, Nimish   PhD: Tata Institute (1994)

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Research: *Ergodic Theory - Ergodic Theory on Homogeneous Spaces of Lie Groups - Applications To Number Theory*

Thompson, Dan   PhD: University of Warwick (2009)

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Research: *Ergodic Theory - Dynamical Systems - Symbolic Dynamics – Thermodynamic Formalism - Dimension Theory & Geometry*

Representation Theory, Operator Theory, Harmonic Analysis

Casian, Luis   PhD: Massachusetts Institute of Technology (1983)

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Research: *Representation Theory – Representation Theory of Real Semisimple Lie Groups – Integrable Systems*

Moscovici, Henri   PhD: University of Bucharest (1971)

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Research: *Non-commutative Geometry and Applications to Geometry, Topology and Number Theory*

Stanton, Robert   PhD: Cornell University (1974)

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Research: *Harmonic Analysis on Lie Groups*

McEnnis, Brian   PhD: University of Toronto (1977)

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Research: *Operator Theory*

Rader, Cary   PhD: University of Washington (1971)

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Research: *Representation Theory*