Applied Mathematics Faculty

Harish Bhat, Assistant Professor (Ph.D. California Institute of Technology)
Research: wave phenomena in electromagnetic media and compressible fluids studied using applied/ computational analysis and geometric mechanics.

François Blanchette, Assistant Professor (Ph.D. Massachusetts Institute of Technology)
Research: computational and theoretical multiphase fluid dynamics with applications to sedimenting systems and surface tension dominated flows.

Boaz Ilan, Assistant Professor (Ph.D. Tel Aviv University)
Research: analytical and computational modeling of linear and nonlinear waves applied to ultrafast optics, Bose-Einstein condensates, and solar science.

Arnold D. Kim, Associate Professor (Ph.D. University of Washington)
Research: wave propagation in random media applied to biomedical optical imaging and wireless communications.

Yue Lei, Lecturer with Potential Security of Employment (Ph.D. Massachusetts Institute of Technology)
Research: lower-dimensional topology and geometry

Roummel Marcia, Assistant Professor (Ph.D. University of California, San Diego)
Research: linear algebra and nonlinear optimization with applications to compressive optics, computational biochemistry, and anomaly detection.

Kevin Mitchell, Associate Professor (Ph.D. University of California, Berkeley) [Graduate group member]
Research: dynamical systems applied to atomic, molecular and optical physics.

Avi Shapiro, Visiting Assistant Professor (Ph.D. Columbia University)
Research: Wave scattering in fluid dynamics and optics, free-boundary problems such as the dynamics of bubbles and drops.

Mayya Tokman, Assistant Professor (Ph.D. California Institute of Technology)
Research: computational science, numerical analysis, mathematical modeling applied to plasma physics.

Instructors

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- **Bob Brooke** email: bbrooke(at)ucmerced(dot)edu
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- **Sarah Stolberg** email: sstolberg(at)ucmerced(dot)edu