

Department of Mathematics external grants awards Funds Received: January 2014-December 2014

Investigators	Sponsor	Title	Amount
Jeffrey D Achter (Primary PI)-1874	DOD-NSA-National Security Agency	Exceptional Maps between Arithmetic Moduli Spaces	\$22,481.00
Daniel James Bates (Primary PI)-1874	NSF - National Science Foundation	SI2-SSE: Collaborative Proposal: Symbolic-Numeric Approaches to Polynomials	\$149,346.00
Anton Betten (Primary PI)-1874	NSF-MPS-Mathematical & Physical Sciences	Algebraic Combinatorics Seminar	\$37,459.00
Renzo Cavalieri (Primary PI)-1874	NSF - National Science Foundation	Western Algebraic Geometry Seminar - Five Year Plan	\$3,440.00
Renzo Cavalieri (Primary PI)-1874	NSF - National Science Foundation	Western Algebraic Geometry Seminar - Five Year Plan	\$58,493.00
Margaret Cheney (Primary PI)-1874; Chandrasekaran Venkatachalam (Co-PI)-1373	Matrix Research, Inc.	Wind Turbine Radar Clutter Mitigation, Phase 2	\$200,981.00
Margaret Cheney (Primary PI)-1874	DOD-USAF-Air Force	Radar Remote Sensing	\$147,352.00
Jessica F Ellis (Primary PI)-1874	NSF - National Science Foundation	MPWRII: Mentoring Partnerships for Women in RUME	\$49,986.00
Jessica F Ellis (Primary PI)-1874	NSF - National Science Foundation	MPWRII: Mentoring Partnerships for Women in RUME: Participant Support	\$19,265.00
Jessica F Ellis (Primary PI)-1874	American Mathematical Society	Progress through Calculus (PtC)	\$86,435.00
Alexander J Hulpke (Primary PI)-1874	Simons Foundation	Collaboration Grant for Mathematicians	\$7,000.00
Patrick Ingram (Primary PI)-1874	Simons Foundation	Interactions Between Number Theory and Dynamics	\$7,000.00

Michael J Kirby (Primary PI)-1874	Physical Sciences, Inc.	LWIR Compressive Sensing Hyperspectral Imager	\$13,453.00
Michael J Kirby (Primary PI)-1874; Christopher Peterson (Co-PI)-1874; Joshua Jerome Thompson (Collaborator)-0000; Louis L Scharf (Collaborator)-1874	NSF - National Science Foundation	CDS&E-MSS: Algebraic and Geometric Tools and Algorithms for the Analysis of Data Clouds and Large Data Arrays	\$230,552.00
Michael J Kirby (Primary PI)-1874; Christopher Peterson (Co-PI)-1874	DOD-USAF-Air Force	Algorithms on Flag Manifolds for Knowledge Discovery in N-way data arrays.	\$81,016.00
Michael J Kirby (Primary PI)-1874; Christopher Peterson (Co-PI)-1874	NSF - National Science Foundation	ATD: Detection and Classification of Threats Using Subspace Manifold Geometry	\$115,149.00
Jiangguo Liu (Primary PI)-1874	NSF - National Science Foundation	Developing Novel Conservative Methods for Flow and Transport	\$119,999.00
Jennifer L Mueller (Primary PI)-1874	HHS-NIH-Biomedical Imaging & Bioengineer	Electrical Impedance Tomography	\$158,357.00
Kaitlyn E Voccola (Primary PI)-1874	DOD-USAF-Air Force	Mathematical & Statistical Techniques for Synthetic-Aperture Radar	\$119,698.00
James Benjamin Wilson (Primary PI)-1874; Alexander J Hulpke (Co-PI)-1874; Timothy John Penttila (Collaborator)-1874	DOD-NSA-National Security Agency	Funding for a Conference on Groups, Computation, and Geometry	\$15,000.00
James Benjamin Wilson (Primary PI)-1874; Alexander J Hulpke (Co-PI)-1874; Timothy John Penttila (Collaborator)-1874	NSF - National Science Foundation	Funding For A Conference on Groups, Computation, and Geometry	\$18,000.00

Yongcheng Zhou (Primary PI)-1874	Simons Foundation	Multiscale Electrodiffusion in Bulk and on Manifolds	\$7,000.00
Mahmood R Azimi-Sadjadi (Primary PI)-1373; Louis L Scharf (Co-PI)-1874	DOD-NAVY-ONR-Office of Naval Research	Invariance and Co-Variance ATR Using Multichannel Sonar	\$55,184.00
Mahmood R Azimi-Sadjadi (Primary PI)-1373; Louis L Scharf (Co-PI)-1874	DOD-NAVY-ONR-Office of Naval Research	Invariance and Co-Variance ATR Using Multichannel Sonar	\$30,000.00
Liuqing Yang (Primary PI)-1373; Louis L Scharf (Co-PI)-1874	University of Wyoming	Synchrophasor Data Usage in Academia for Future Professional Workforce Development	\$39,546.00
Bruce Draper (Primary PI)-1873; Christopher Peterson (Co-PI)-1874; Michael J Kirby (Co-PI)-1874; J Ross Beveridge (Co-PI)-1873	DOD-ARPA-Advanced Research Proj. Agency	Visual Intelligence through Latent Geometry and Selective Guidance	\$73,362.00
			\$1,865,554.00

Total Administered in Math	\$1,667,462.00
Total Administered outside of Math	\$198,092.00
Total	<u>\$1,865,554.00</u>