Externally-Funded Activities at Macalester College 2010-2014

Faculty Awards: 1 January 2010 – 31 December 2013

Thomas Halverson, Mathematics, Statistics, and Computer Science, 2013-2018

Simons Foundation

Combinatorial Representation Theory

Paul Fischer, Chemistry, 2013-2018

Camille & Henry Dreyfus Foundation

Studies on Group VI and Group VIII Metal Complexes of Donor-Functionalized Cyclopentadienyl and Anionic Bis(phosphino)borate Ligands

John Craddock, Geology, 2013-2016

Binational Science Foundation

Neotectonics of the Dead Sea Transform based on strain analysis and U-Th dating of syntectonic calcite

Holly Barcus, Geography, 2013-2016

Andrew W. Mellon Foundation

The migration-culture nexus in Mongolia specifically, and Central Asia more broadly

Kathryn Splan, Chemistry, 2013-2016

National Science Foundation

RUI: Copper(I) Interactions With Zinc Finger Domains

Julie Dolan, Political Science, 2013-2016

National Science Foundation

RUI: Representative Bureaucracy: The Role of Gender Consciousness in Improving Health Care for Female Veterans

Tom Varberg, Chemistry, 2013-2016

National Science Foundation

RUI: High-Resolution Electronic Spectroscopy of Transition Metal-Containing Free Radicals in the Gas Phase

John Cannon, Physics and Astronomy, 2012-2015

National Science Foundation

RUI: The Survey of HI in Extremely Low-mass Dwarfs (SHIELD)

Elizabeth Shoop, Mathematics, Statistics, and Computer Science, 2012-2015

National Science Foundation

Collaborative research: CS in Parallel: Scaling an incremental modular approach to injecting parallel computing throughout CS curricula

Christina Manning, Environmental Studies, 2011-2015

Minnesota Pollution Control Agency (Contract)

2011 Eco Experience Evaluation and Survey

Kristina Curry Rogers, Geology/Biology, 2010-2015

National Science Foundation

CAREER: Comparative Osteohistology: Exploring Microstructural Signatures of Environmental Stress in Modern and Fossil Ecosystems

Andrew Beveridge, Mathematics, Statistics, and Computer Science, 2012-2015

National Science Foundation

REU Site: Interdisciplinary Mathematics Research

Raymond Rogers, Geology, 2010-2015

US Dept of Interior, Bureau of Land Management

Developing Interpretive Materials Related to the Paleontology and Geology of the Upper Missouri River Breaks National Monument

Kelly MacGregor & Raymond Rogers, Geology, 2010-2014

University of Minnesota (NASA)

Minnesota Space Grant Consortium

John Cannon, Physics and Astronomy, 2011-2014

Space Telescope Science Institute

Fundamental Parameters of the SHIELD Galaxies

David Lanegran, Geography, 2013-2014

National Geographic Education Foundation

Minnesota 2013/2014 Alliance Grant

David Lanegran, Geography, 2012-2013

National Geographic Education Foundation

Minnesota 2012/2013 Alliance Grant

Roopali Phadke & Christina Manning, Environmental Studies, 2013-2014

Greater Lakes Integrated Sciences and Assessments Center

Making it Personal: Diversity and Deliberation on Climate Adaptation

Devavani Chatterjea, Biology, 2010-2014

National Institutes of Health

Roles of Mast Cells in Inflammatory Pain

Tonnis ter Veldhuis, Physics and Astronomy, 2011-2014

National Science Foundation

RUI: Beyond the Standard Model: Model Building and Phenomenology

John Cannon, Physics and Astronomy, 2011-2014

Jet Propulsion Laboratory

Fundamental Parameters of the SHIELD Galaxies

John Cannon, Physics and Astronomy, 2010-2014

Space Telescope Science Institute

The Holistic Evolution of Dwarf Galaxies: Internal and External Processes in NGC 6822

Karl Wirth, Geology, 2010-2014

National Science Foundation

Collaborative Research: GARNET II: Self-Regulated Learning and the Affective Domain in Physical Geology

Devavani Chatterjea, Biology, 2013-2014

National Vulvodynia Association

Modeling allergen-provoked vulvodynia in mice

Ronald Brisbois, Chemistry, 2012-2014

Northern Kentucky University Research Foundation (National Science Foundation)

Dispersed REU Site: Theoretically Interesting Molecules (TIM)

Sarah Boyer, Biology, 2010-2014

National Science Foundation

RUI Collaborative Research: Systematics and Biogeography of Mite Harvestmen of the Australian Wet Tropics

Chad Higdon-Topaz, Mathematics, Statistics, and Computer Science, 2010-2014

National Science Foundation

RUI - Pattern forming dynamical systems in theory and experiment

Roopali Phadke, Environmental Studies, 2010-2014

National Science Foundation

Landscapes of Power: Deliberating the New Energy Economy

Kathryn Splan, Chemistry, 2010-2014

American Chemical Society Petroleum Research Fund

Photophysical Characterization of Free-base Bis(arylethynyl)porphyrin Diacids and Aggregates

Louisa Bradtmiller, Environmental Studies, 2011-2014

National Science Foundation

RUI: Using opal and organic carbon as proxies for wind-driven upwelling during the onset and termination of the African Humid Period in a transect of African margin cores

Raymond Rogers, Geology, 2013-2014

US Dept of Interior, Bureau of Land Management Cow Creek Paleontological Inventory

Patrick Schmidt, Political Science, 2014

Fulbright/Council for International Exchange of Scholars

Macedonia: Rule of Law, Judiciary Reform, and Civil Society

Wayne Roberts, Mathematics, Statistics, and Computer Science, 2013-2014

Minnesota Office of Higher Education Teachers Facilitating School Success

David Lanegran, Geography, 2013-2014

Minnesota Office of Higher Education

Authentic Pedagogy for Integrating Instructional Technology, the Common Core Standards and the New Minnesota Academic Standards for Geography

Raymond Rogers, Geology & Kristina Curry Rogers, Geology/Biology, 2011-2014

National Science Foundation

RUI: Deciphering Origins of Vertebrate Microfossil Bonebeds: A Comparative Taphonomic and Paleoecological Approach in the Late Cretaceous of Montana

Paul Fischer, Chemistry, 2010-2014

National Science Foundation

RUI - Synthesis and Reactivity of Coordinatively Unsaturated Zwitterionic Half-Sandwich Group VII Metal Complexes

Scott Legge, Anthropology, 2012-2014

Minnesota Historical Society

Exploring the Past at the Katharine Ordway Natural History Study Area Through Phase I Archaeological Survey

Brooke Lea, Psychology, 2011-2014

National Science Foundation

Eye Trackers for Behavioral Science at Macalester and Augsburg Colleges

Vittorio Addona, Mathematics, Statistics, and Computer Science, 2012-2014

McGill University (Canadian Institutes of Health Research)

Accelerating the Generation of Results from Longitudinal Studies of Aging

Shilad Sen, Mathematics, Statistics, and Computer Science, 2010-2014

National Science Foundation

HCC: Medium: Collaborative Research: Guiding Folksonomy Development to Enable Novel Tagging Applications

Gary Erickson, Art and Art History, 2013-2014

Minnesota State Arts Board

China porcelain exhibition in Minnesota

Gary Erickson, Art and Art History, 2013-2014

Chinese Heritage Foundation

Jingdezhen China Porcelain

Ron Barrett, Anthropology, 2009-2014

National Science Foundation

Social networks among marginalized populations at risk for avian influenzas

Ernesto Capello, History, 2013-2014

National Endowment for the Humanities

The Second French Geodesic Mission to Ecuador: Politics & Aesthetics of Commemorative Cartography

Christina Manning, Environmental Studies, 2013

Capitol Region Watershed District

Evaluating Public Education Displays on Local Water Run-Off Issues

Dan Hornbach, Mark Hove & Sarah Boyer, Biology, 2012-2013

National Park Service

Support Recovery of Endangered Winged Mapleleaf Mussel and Determine Genetics of Zooplankton on the St. Croix National Scenic Riverway

Roopali Phadke, Environmental Studies, 2013

Arizona State University (National Science Foundation)

Futurescapes City Tour Fall 2013

David Lanegran, Geography, 2011-2013

National Geographic Education Foundation

Minnesota 2011/2012 Alliance Grant

Keith Kuwata, Chemistry, 2010-2013

National Science Foundation

MRI: Acquisition of a Computer Cluster for Undergraduate Chemistry Research, Research Training, and Teaching by the Midwest Undergraduate Computational Chemistry Consortium (MU3C)

Jerald Dosch, Biology, 2012-2013

Public Art Saint Paul

Call for Scientists and STEM Professionals: City Art Collaboratory

Ernesto Capello, History, 2013

The Huntington Library

Inventing Equatorial Pyramids: Commemorative French Geodesy in Ecuador, 18th-21st Centuries

Clay Steinman, Media and Cultural Studies, 2012-2013

Fulbright/ Council for International Exchange of Scholars China - Study of the United States

James Heyman, Physics and Astronomy, 2010-2013

National Science Foundation

Ultrafast Conductivity Measurements of Graphene Films

Holly Barcus, Geography, 2013

Great Lakes Colleges Association

Learning about Japan through guided conference field excursions

Jane Rhodes, American Studies, 2012-2013

Radcliffe Institute for Advanced Study

Transatlantic Blackness in the Era of Jim Crow: Race and Gender in the Life of an African American Expatriate

John Cannon, Physics and Astronomy, 2013

Georgia Southern University (National Science Foundation)
The Undergraduate ALFALFA Team

Paul Fischer, Chemistry, 2010-2013

National Science Foundation

MRI: Acquisition of a 400 MHz NMR Spectrometer to Facilitate Research and Undergraduate Research Training

Raymond Rogers, Geology, 2012-2013

US Dept of Interior, Bureau of Land Management (Contract)

UMRBNM Fossil replicas/Paleontology presentations

Alicia Muñoz, Hispanic Studies, 2012-2013

Woodrow Wilson National Fellowship Foundation

Representations of women who kill: An investigation of contemporary Latin American narrative and popular culture

Wayne Roberts, Mathematics, Statistics, and Computer Science, 2012-2013

Minnesota Office of Higher Education

Unifying Views of Mathematical Topics in Middle and Senior High School

David Lanegran, Geography, 2012-2013

Minnesota Office of Higher Education

Authentic Pedagogy for Integrating Instructional Technology, the Common Core Standards and the New Minnesota Academic Standards for Geography

Chris Wells, Environmental Studies, 2012-2013

Minnesota Historical Society

Minnesota's Environmental History

Devavani Chatterjea, Biology, 2011-2013

National Vulvodynia Association

Establishing a mast-cell dependent model of vulvar pain in C57BL/6 mice

Ernesto Capello, History, 2012-2013

Smithsonian Institution

Second French geodesic mission to Ecuador: Commemoration, Cartography, Monuments (1901-1906)

Brett Wilson, Religious Studies, 2012-2013

Institute for Turkish Studies

Printing and Translating the Qur'an in Late Ottoman and Modern Turkey

David Lanegran, Geography, 2012

Library of Congress

Using Maps as Primary Documents in Social Science Inquiry Lessons

Erik Davis, Religious Studies, 2012

Wabash Center

An Interview with Nuon Chea: Preparing an Article based on an interview with the Khmer Rouge's "Brother No.2"

David Lanegran, Geography, 2012

CHS Foundation

Exploring Minnesota Agriculture: An Up-Close Opportunity for Social Studies Teachers

John Cannon, Physics and Astronomy, 2012

Georgia Southern University (National Science Foundation)

The Undergraduate ALFALFA Team: The Survey of HI in Extremely Low-mass Dwarfs

David Lanegran, Geography, 2010-2012

National Geographic Education Foundation

Minnesota 2010/2011 Alliance Grant

John Craddock, Geology, 2011-2012

Keck Geology Consortium (National Science Foundation)

Eocene Tectonic Evolution of the Teton-Absaroka Ranges, Wyoming (Year 2)

Wayne Roberts, Mathematics, Statistics, and Computer Science, 2011-2012

Minnesota Office of Higher Education

Combinatorics for Middle and Senior High School

David Lanegran, Geography, 2011-2012

Minnesota Office of Higher Education

Authentic Pedagogy for Integrating Reading, Writing and Instructional Technology into the New Minnesota Academic Standards for Geography

Shilad Sen, Mathematics, Statistics, and Computer Science, 2012

University of Minnesota (National Science Foundation)

Supporting Newcomer Socialization in Online Production Communities

James Heyman, Physics and Astronomy, 2010-2012

National Science Foundation

MRI-R2: Acquisition of a High-Power Femtosecond Ti:Sapphire Laser for Ultrafast Terahertz Spectroscopy

Dan Hornbach & Mark Hove, Biology, 2011-2012

National Park Service

Winged Mapleleaf Mussels Recovery

Roopali Phadke & Christina Manning, Environmental Studies, 2011 (Contract)

Alliance for Economic Success

Understanding Wind Initiative

Sarah Boyer, Biology, 2010-2011

National Park Service

Determining Genetic Markers for Native Mussels

Dan Hornbach & Mark Hove, Biology, 2010-2011

National Park Service

Winged Mapleleaf Mussels: Propagation Efforts and Habitat & Range Assessment

Shilad Sen, Mathematics, Statistics, and Computer Science, 2010-2011

Associated Colleges of the Midwest

Opening Macademia to all ACM Institutions

Paru Shah, Political Science, 2010-2011

National Science Foundation

Collaborative Research: Local Elections in America Project

Laura Nichols, Music; Eric Wiertelak, Psychology; & Adrienne Christianson, Political Science, 2011

Associated Colleges of the Midwest

High Stakes Performance by Liberal Arts College Students: Understanding and Coping with Anxiety

David Lanegran, Geography, 2011

National Geographic Education Foundation

Enhancing Geographic Literacy in Minnesota: A proposal to implement a Strategic Planning Process

Sarah Boyer, Biology, 2011

National Geographic Society

Understanding the Origin of Rainforest Diversity: Historical Biogeography of Mite Harvestmen from the Australian Wet Tropics

Pritika Chowdhry, Art and Art History, 2011

American Institute of Indian Studies

Memories of Place: The Role of Monuments

John Cannon, Physics and Astronomy, 2011

Georgia Southern University (National Science Foundation)

The Undergraduate ALFALFA Team: The Survey of HI in Extremely Low-mass Dwarfs

Chris Wells, Environmental Studies, 2010-2011

Minnesota Historical Society

Environmental History Resources Collaboration

David Lanegran, Geography, 2010-2011

Minnesota Office of Higher Education

Developing Teacher Leaders for Geography Instruction and Assessment

Wayne Roberts, Mathematics, Statistics, and Computer Science, 2010-2012

Minnesota Office of Higher Education

Number Theory for Middle and Senior High School

David Lanegran, Geography, 2010-2011

Minnesota Historical Society

Veritas Caput: Defining the Source of the Mississippi

John Craddock, Geology, 2010-2011

Keck Geology Consortium (National Science Foundation)

Wyoming - Tetons: Eocene Tectonic Evolution of the Teton Range, Wyoming

Kelly MacGregor, Geology, 2010-2011

Keck Geology Consortium (National Science Foundation)

Montana - Glacier National Park: Geomorphologic and paleoenvironmental change in Glacier National Park, Montana, June 29 - July 27, 2010

David Martyn, German and Russian Studies, 2011

Center for Literary Studies

Literature and Statistics in the Nineteenth Century

David Martyn, German and Russian Studies, 2011

University of Konstanz

Literature and Statistics in the Nineteenth Century

Vasant Sukhatme, Economics, 2010

Fulbright/ Council for International Exchange of Scholars Fulbright (India)

Franklin Adler, Political Science, 2010

National Endowment for the Humanities Fascist Italy's Campaign Against the Jews

Institutional Awards: 1 January 2010 – 31 December 2013

Andrew W. Mellon Foundation, 2013-2017

Creating Lifelong Learners: Linking Immersive Experiences to the Liberal Arts Foundation Directed by Christy Hanson, Dean, Institute for Global Citizenship

Howard Hughes Medical Institute, 2012-2016

Transforming Data into Knowledge: Curricular Innovations in the Era of Big Data Directed by Paul Overvoorde, Biology

Andrew W. Mellon Foundation, 2012-2016

Sustaining a Culture of Intellectual Engagement and Success: A Request for Renewed Support of The Mellon Mays Undergraduate Fellowship Program

Directed by Jane Rhodes, American Studies

F.R. Bigelow Foundation, 2011-2015

Janet Wallace Fine Arts Center Renovation Directed by Kathleen M. Murray, Provost

Andrew W. Mellon Foundation, 2011-2014

Faculty Development at Macalester College: Next Stages and New Challenges Directed by Kathleen M. Murray, Provost

Minnesota Pollution Control Agency, 2012-2014

Electric Vehicle Charging Stations

Directed by Suzanne Savanick Hansen, Sustainability Manager

Teagle Foundation (Imagining America), 2012-2014

Civic Professionalism: A New Paradigm for Undergraduate Liberal Arts Education Directed by Paul Schadewald, Civic Engagement Center

Andrew W. Mellon Foundation, 2012-2014

Collaborative Planning for the Digital Humanities: A Grant Request to the Andrew W. Mellon Foundation On Behalf of Macalester, Carleton and St. Olaf Colleges Directed by Kathleen M. Murray, Provost

Howard Hughes Medical Institute, 2013-2014

Defining the Quantitative and Computational Skills of Incoming Science Students Directed by Paul Overvoorde, Biology

Project Pericles, Inc, 2013

Creating Cohesive Paths to Civic Engagement
Directed by Paul Schadewald & Karin Trail-Johnson, Civic Engagement Center

Xcel Energy Inc, 2012-2013

Electric Vehicle Charging Stations

Directed by Suzanne Savanick Hansen, Sustainability Manager

Minnesota Campus Compact, 2013

Central Corridor Summer Fellowship Program

Directed by Paul Schadewald & Karin Trail-Johnson, Civic Engagement Center

Davis United World College Scholars Program, 2013

Davis Projects for Peace - Zinc and Latrines for Peace

Davis Projects for Peace - Reconciliation through Education in Ljubuški, Bosnia and Herzegovina Directed by Karin Trail-Johnson, Civic Engagement Center

Andrew W. Mellon Foundation, 2010-2013

Mid-Career Presidential Grant

Directed by Brian Rosenberg, President

Medtronic, Inc., 2011-2013

Global Health Scholars Program: Planning Exercises

Directed by Elizabeth Jansen, Biology; Rebecca Hoye, Chemistry; & Joan Toohey, Science and Research Office

Capitol Region Watershed District, 2011-2012

Cambridge Avenue Parking Lot Stormwater Retrofit at Macalester College

Directed by Mark Dickinson, Facilities & Suzanne Savanick Hansen, Sustainability Manager

Mansergh-Stuessy Fund for College Innovation of the St. Paul Foundation, 2012

Sustainable Wellness through Collaboration, Education, and Innovation

Directed by Denise Ward, Lisa Broek, Health and Wellness Center & Vanessa Seljeskog, Athletics

Davis United World College Scholars Program, 2012

Davis Projects for Peace - Green Lake Water Project: Sustainable, Safe Water for All

Davis Projects for Peace - The Bike Library for Carishinas

Directed by Karin Trail-Johnson, Civic Engagement Center

Bonner Foundation, 2011-2012

2011-2012 Bonner Leader Program Enrichment Grant

Directed by Karin Trail-Johnson, Ruth Janisch Lake & Consuelo Gutierrez-Crosby, Civic Engagement Center

Barnard College (Andrew W. Mellon Foundation), 2010-2012

Third Mellon 23 Assembly Funds

Directed by Kathleen M. Murray, Provost & Adrienne Christiansen, Political Science

Project Pericles, Inc, 2010-2011

Periclean Faculty Leadership

Directed by Paul Schadewald & Karin Trail-Johnson, Civic Engagement Center

Syracuse University (Imagining America), 2010-2011

IA Collaboratories 2010-2011

Directed by Paul Schadewald, Civic Engagement Center

Davis United World College Scholars Program, 2011

Davis Projects for Peace - Library for Education Equality

Davis Projects for Peace - Women and Peanut Processing, Economic justice, Women's Enterprise and Community Development in Maradi, Niger

Directed by Paul Schadewald & Karin Trail-Johnson, Civic Engagement Center

Minnesota Historical Society, 2010-2011

Digitization of Historic Macalester College Publications
Directed by Ellen Holt-Werle, Archivist

North Central College Health Association, 2010

Sustainable Students

Directed by Lisa Broek, Health and Wellness Center

Davis United World College Scholars Program, 2010

Davis Projects for Peace - "Building Walls and Breaking Barriers", The Container School Project in Manila Davis Projects for Peace - A Passionate Solution: Creating a Better World Through Passion Fruit Wine Directed by Karin Trail-Johnson, Civic Engagement Center

Vanessa Seljeskog, Athletics, 2011-2013

National Collegiate Athletic Association

NCAA Ethnic Minority and Women's Internship Grant

Ellen Holt-Werle, Archivist, 2012-2013

National Endowment for the Humanities

Conservation Assessment and Storage Materials to Preserve Library's Audiovisual Materials