

Keck Grants 1998-2006

1998

<u>Professor</u>	<u>Department</u>	<u>Student</u>	<u>Purpose</u>
Sarah Dart	Linguistics	Benjamin L. Harris	Phonetic research in France
James Doyle & Michael Schneider	Physics/Math	Boris Magosci	Computational plasma dynamics using parallel processing
Fabiola Franco & Naoko Ikegami	Spanish/Japanese	Andrej Mariano Giampetri	Write text for Japanese speakers
Thomas Halverson	Math/CS	Erik Fuller	Representation theory of the affine Hecke algebras
James Heyman	Physics	Shunichiro Kuroki	Measurement of electron cooling rates
Daniel Kaplan	Math/CS	Jennifer Hunter	Research surrogate data
David Lanegran	Geography	Claudia Fonkert	Predict the impact of urban planning policies
Michael McCall	Sociology	Fiona Creed/Siri Eggebraten	Study viability of community garden
David Chioni Moore	International Studies	Jennifer Bouta	Revise, expand, republ. "A Negro Look at Soviet Central Asia"
Roger Mosvick	Communication Studies	John Schatz	Compare new communication media to traditional media
Anne Sutherland	Anthropology	Leanna Rosser	Research environmentalism in Belize

1999

<u>Professor</u>	<u>Department</u>	<u>Student</u>	<u>Purpose</u>
Peter Ferderer	Economics	Kyle Richey	Research how ask-bid price spreads during depression responded to events
Duchess Harris	Political Science	Adam Waterman	Study/evaluate impact of Revolutionary People's Constitutional Convention
James Heyman	Physics	Momar Dieng	Model generation of picosecond pulses of infrared radiation at semiconductor surfaces
Dan Hornbach	Biology	Leda Curnningham	Examine efficacy of relocation techniques for preserving endangered mussels
Jerry Pitzl	Geography	Emily Stewart	Develop case to determine US position in relation to Kyoto Protocol
Ray Rogers	Geology	Rebecca Terry	Explore early dinosaur evolution in South Africa
Al Romero	Environmental Studies	Kyla Hayford	Document distribution & conservation of whales & dolphins in Caribbean
Ahmed Samatar	International Studies	Erin Kimball	Research African political economy
Sonita Sarker	Women's Studies	Lacey Hartman	Global feminisms, utopia & technology in 20 th century
Stan Sears	Art	Tony Morrow	Research, develop and execute a new sculptural vocabulary in terra cotta
Paul Solon & Clay Steinman	History/Communication Studies	Samara Rafert	Picturing the Past: History, Movies & National Identity
Jaine Strauss	Psychology	Cortney Warren	Reinhibition & dietary restraint

2000

<u>Professor</u>	<u>Department</u>	<u>Student</u>	<u>Purpose</u>
Susan Fox	Math/CS	David Christian/Alex Burst	Robot Control
Martin Gunderson	Philosophy	Jeronimo Arellano	Moral issues regarding right to die
Gary Krueger	Economics	Catherine Brown	CEO compensation, board structure & firm performance
Brooke Lea	Psychology	Patrick Kayser	Study reading comprehension results
Joan Ostrove	Psychology	Danette Crawford	Study representations of disability
Calvin Roetzel	Religious Studies	Jason Schlude	Paul and the Gentiles
Raymond Robertson	Economics	Matt Healy	Study of wage growth in Mexico
Norm Rosenberg	History	Tom Noonan	Applying advanced multimedia technology in the classroom
Jack Rossmann	Psychology	Sarah Jullienne	Study relationships among parenting styles in feminist and minority networks
Paul Solon	History	Helen Divjak	Study the debate over the military revolution
James von Geldern	Russian	Emilia Simeonova	Construct a digital museum for the photography of Flip Schulke

2001

<u>Professor</u>	<u>Department</u>	<u>Student</u>	<u>Purpose</u>
David Bressoud	Math/CS	Erik Slivken	Exploration of Powers of the Eta-function
Ronald Brisbois	Chemistry	Teddy Chidhothe	Exploration of transition metal sandwich complex as novel structural scaffold for creating asymmetric molecules
Adrienne Christiansen	Communication Studies	Johanna Hartelius	Visual Argument and Rhetoric on the World Wide Web – reconfiguring and retheorizing Aristotlian concepts & adapting them to visual-based computer mediated communication
John Craddock	Geology	Jenn Anziano	Kinematics of Mafic Dike Intrusion
James Doyle	Physics	Erik Hoffman	Non-linear and chaotic effects in electrical circuits
Susan Fox	Math/CS	Alon Rohter & Jumana Al-Hashal	Use of Pioneer 2 DX robots to study robot localization
Mary Hark	Art	Siobhan Boylan	Mapping and topography within the tactile language of mixed media
Becky Heist	Dramatic Arts & Dance	Lijia Strachan	Dance for the Camera – A Dance Video Documentary
Becky Hoye	Chemistry	Gerald Wilson	Synthetic approaches to Cytotoxic Polyacetylenes
Kiarina Kordela	German Studies	Steve Jaksa	God in Secular Literature
Teresita Martinez-Vergne	History	Ines Tofalo	Cultural Politics and Social Movements in Latin America
Karine Moe & Sarah West	Economics	Ghaith Hiary/Jim Sallee	Development of the Macalester College Microeconomic Database
Andy Overman	Classics	Christine Grinavic	Archaeology and the Artifactual Analysis of Roman Imperialism
Ray Robertson	Economics	Anita Girdhari	How will Labor Law Reform affect Employment and Wage Equality
Raymond Rogers	Geology	Elizabeth Hajek	Stratigraphy and Taphonomy of Marine Flooding surfaces
Emily Rosenberg	History	Kate Forsyth	Historical Memory and the Attack on Pearl Harbor
Jack Rossmann	Psychology	Pedro von Vacano	A study of the relationship between gender and supervisors' ratings of job performance
James Stewart	History	Jessie L. Carr	Oral Histories of Prairie Island Indian Reservation
Jim von Geldern	Russian	Emilia Simeonova	Seventeen Moments in Soviet History, A Digital Sourcebook

2002

<u>Professor</u>	<u>Department</u>	<u>Student</u>	<u>Purpose</u>
David Bressoud	Math/CS	Paul Kwame Yankson	The Roots of Calculus
Ronald Brisbois	Chemistry	Sheng-Fu Lo	Sonogashira Coupling Reaction
John Craddock	Geology	Carolyn Kilberg	Structural Evolution of the Cretan Detachment, Greece
Paul Fischer	Chemistry	Kristin Sweet	Synthesize Organometallic Complexes with novel Metal-furan interactions
Daniel Kaplan	Math/CS	Adam Gailey	Investigation of “Indirect Prediction”
David Lanegran	Geography	Adrienne Hannert	Public Parks for Which People?
Andrew Latham	Political Science	Benjamin Straus	Preventing the Weaponization of Space: Toward a Canadian Action Plan
Karine Moe	Economics	Ruxandra Tanase	Economics of poverty in the U.S.
Tanya Pollard	English	Emily Ames	English Renaissance Debates Regarding the Nature and Effects of Theater
Ray Rogers	Geology	Michelle Casey	Magnetostratigraphy of the Upper Cretaceous Strata of the Mahajanga Basin, Madagascar
Aldemaro Romero	Environmental Studies	Melody Sakazaki	Study of the Reduction and Loss of Organs in Relation to Evolutionary Biology
Thomas Varberg	Chemistry	Will Ames	Laser Spectroscopy of Transition Metal Fluorides
Joelle Vitiello	French	Hande Kolca-Kostendil	Navigating Francophonie: Political Stakes and Debates

2003

<u>Professor</u>	<u>Department</u>	<u>Student</u>	<u>Purpose</u>
Ronald Brisbois	Chemistry	Heidi Erickson	Supramolecular self-assembly: A new CpCoCb Derived Cages Featuring Endohedral Pd-based corner pieces
Peter Ferderer	Economics	George Veletsianos	Irrational Exuberance: An analysis of Macroeconomic Forecasts in the 1990s.
Paul Fisher	Chemistry	Edward Mwenda	Studies in Intramolecular Amine-Stabilized Transition Metal Boryl Complexes
Mary Hark	Art	Tiffany Kramer	Exploring Ideas of Light and Space within the visual language of Handmade Paper
James Heyman	Physics	Alexander Reinhardt	Continue Ongoing Research of THz emission from GaAs under varying electric fields
Harry Hirsch	Political Science	Cate McDonough	Sin or Salvation? Media Framing of Gay Rights
Gary Krueger	Economics	Tanzeen Syed/Giang Ho	CEO Compensation, Board Structure and firm Performance
Weiwen Miao	Math/CS	Adugna Tolosa	Conditional Interval Estimation of the Means Following Rejection of a Null Hypothesis
Joseph Rife	Classics	Emily Rackow	Imag(in) in Death: Archaeological Photography in the roman Cemetery at Keenchreai
Raymond Robertson	Economics	Haris Aqeel	Will Trade Liberalization Raise Wages in Developing Countries? Evidence of Skill Upgrading and Trade Liberalization in Latin America
Ray Rogers	Geology	Brady Foreman	Fingerprinting Volcanic Ash Beds in the Lower Two Medicine Formation of Northwestern Montana
Dian Shandy	Anthropology	Cole Akeson	Crafting Ethnography, Writing Culture
Elizabeth Shoop	Math/CS	Paulo Casaes/Ben Johnson	Dissemination and Continuing Improvement of the Macalester Gene Ontology Data Exploration Tools
Laura Smith	Geography	Anne Taff	Examining Transportation Planning obstacles in a Regional Context—The Northstar Corridor: Will Commuter Rail be Successful

Timothy Watkins	Biology	Gabriela Paskin	Physiological Responses of two tadpole species to the non-lethal presence of a predator
Sara West	Economics	Sarah Oviatt	Who Buys SUVs? The relationship between Household Income and Demographic Characteristics and vehicle Choices

2004

<u>Professor</u>	<u>Department</u>	<u>Student</u>	<u>Purpose</u>
Ronald Brisbois	Chemistry	Marc Rodwogin	Supramolecular Self-Assembly: Nw CpCoCb-Derived Cages Featuring Endrohedral Pd-based Corner-Pieces and Novel Tetra-Metallic Clipping Corner-Pieces
James Doyle	Physics/Astronomy	Vincent Sseremba	Thin Film Transistor Fabrication using Aluminum-doped Zinc Oxide
Paul Fischer	Chemistry	Kristina Krohn	Studies on Intramolecular Amine-Stabilized Transition-Metal Boryl Complexes
Brooke Lea	Psychology	Katherine Saylor	Can Psycholinguistic Theory Help Explain Music Comprehension?
Mark Mazullo	Music	Elizabeth Everson	Composing in Crisis: Dmitri Shostakovich after 1948
Andrew Overman	Classics	Eeshani Kandpal	Handling Histories: Analyzing the Techniques and Ideologies of Cultural Heritage Preservation in India and Israel
Joseph Rife	Classics	Dhruva Jaishankar	A Study of Taphonomy and Formation Processes in the Human Skeletal Assemblage at the Roman Cemetary of Kenchreai, Greece
Raymond Rogers	Geology	Mara Brady	Testing the Role of Background Concentration on Vertebrate Bioclast Accumulation
Elizabeth Shoop	Math/CS	Elizabeth Gabriel	Continued Development of the Data Exploration Tools for the Gene Ontology Database
Laura Smith	Geography	Brent Hecht	Design, Program and Distribute GIS Software Package for Non-profits and Schools
Vasant Sukhatme	Economics	Veselin Atanasov	Distance, Human Capital Accumulation, and Economic Inequality: Will the Eastern European Countries Ever Get Rich
Thomas Varberg	Chemistry	Carlos Guillermo Alfonzo	Laser Spectroscopy of Osmium Hydride and Tantalum Oxide
Thomas Varberg	Chemistry	Melanie Roberts	Laser Spectroscopy of Osmium Hydride and Tantalum Oxide

Eric Wiertelak	Psychology	David Busha	An investigation into the analgesic properties of plants containing anti-cholinergic tropane alkaloids
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2005

<u>Professor</u>	<u>Department</u>	<u>Student</u>	<u>Purpose</u>
Ronald Brisbois	Chemistry	Sara Duenes	Integrating Cyclophane Synthesis and Supramolecular Self-Assembly: A Convergent Approach to a New Kind of Dehydroannulene Scaffold
Graham Cousens	Psychology	Matthew Patton	Investigating the Rold of Gi/o-Protein-Mediated Signalling within the Nucleus Accumbens in Ethanol Self-Administration
Julie Dolan	Political Science	Phillip Chen	She Can't Say That, Can She?! Campaign Slogans Used by Women Running for Congress
Susan Fox	Math/CS	Andrej Slyckov	Case-based Selection of Robot Behaviors
James Heyman	Physics	Thamsanga Khumalo	THz Emission from Organic Semiconductors
James Heyman & Daniel Kaplan	Physics & Math/CS	Biniyam Tesfaye Taddses	Voice Separation and Tracking of an Active Speaker Using Microphone Arrays
David Lanegran & Laura Smith	Geography	Grace Guthe	Revitalizing Commercial Corridors in the Twin Cities: The Role of Asian Ethnic Entrepreneurs
Erik Larson	Sociology	Amelia Corl & Jennifer Gambach	School Characteristics and Educational Testing
Carleton Macy	Music	Josh Whitney-Wise	Jazz for the Intelligible Realm!
Mark Mazullo	Music	Adam Nelson & Chloe Kiritz	Dmitri Shostakovich's Preludes and Fugues in Performance
Karine Moe	Economics	Alex Zweber	Married Women's Labor Market Choices
Raymond Robertson	Economics	Scott Macdonell	Exchange Rates and Timing: At What Time Frame Does the Purchasing Power Parity Theory Hold?
Thomas Varberg	Chemistry	Tyson Vervoort	Molecular Spectroscopy and Electronic Structure Determination of Tantalum Oxide (TaO)

2006

<u>Professor</u>	<u>Department</u>	<u>Student</u>	<u>Purpose</u>
Holly Barcus	Geography	Sophia Giebultowicz	African Immigrants in the Twin Cities: A Study of Residential Patterns
Paula Coeey	Religious Studies	Ashley Geisendorfer	The Place of the Child in the Study of Religion and Religious Ethics
Graham Cousens	Psychology	Tuong-Vi Nguyen	Cholinergic Modulation of Nucleus Accumbens Neuronal Activity
John Craddock	Geology	Natalie Juda	Tectonic Evolution of the Ellsworth-Whitmore Terrane, Antarctica
Kim Dickson	Biology	David Chrastek	Creation of an Oxidation-Resistant Ribonuclease Inhibitor
Paul Fischer	Chemistry	Zoey Herm	Investigation into the Alkylation of 2-(Dimethylamino Ethyl)cyclopentadienyl Group VI metal Carbonyl Anions
Susan Fox	Computer Science	Paul Norman	Integrating Planning and Action in a Robot
Becky Heist	Theater & Dance	Jenn Henry	Dance for the Camera
James Heyman	Physics	Jeff Rogers	THz Emission from Wide-bandgap Semiconductors
Keith Kuwata	Chemistry	Eily Sliz	Computer Modeling of Aerosol Formation Reactions in the Troposphere
Erik Larson	Sociology	Stephanie Phillips	Citizenship and Transnational Identity in Japan: Exploring Japan's Japanese-Brazilian Immigrant Population
Brooke Lea/Jennifer Wenner	Psychology	Matthew Olson	How Does Pragmatic Knowledge Develop?
Marjorie Merryman	Music	Anh Trinh	Vietnamese Folk Material in Music Composition
William Moseley	Geography	Joel Larson	Reaching the Limits: Food Insecurity and Hunger Mitigation Strategies for Household in Minneapolis and St. Paul
Joan Ostrove	Psychology	Abigail Katowitz	Understanding Cross-Identity Alliances Between Deaf and Hearing People
Roopali Phadke	Environmental Studies	Erin Foster-West	Desalination Development in the Middle East and North Africa
Joseph Rife	Classics	Eli Weaverdyck	The Mute Stones Speak: Paleographic and Chronological Analysis of the Inscriptions from Kenchreai, Greece
Stanton Sears	Art	Eve Thomas	Sculptural Ideas Integrated into Landscape
Elizabeth Shoop	Math/Computer Science	Methawat Chanla/Lars T. Johnson	Development of An Integrated System of Genome Analysis and Visualization Tools

Tonnis ter Veldhuis	Physics	Kassahun Haileyesus	Supersymmetric brane dynamics: A Theoretical Study of Soliton Dynamics in Anti-de Sitter Space+G13
Eric Wiertelak	Psychology	Michael Blythe	Establishing a Consistent Extraction Technique for the Tropane Alkaloids Found in Hyoscyamus Niger and Creating a Dose-Response Curve with the Extract

2007

<u>Professor</u>	<u>Department</u>	<u>Student</u>	<u>Purpose</u>
Devavani Chatterjea	Biology	Nate Crider	Expression of murine semaphorins 4F and 7A in the thymus and their possible roles in guiding T cell development
Devavani Chatterjea	Biology	Grace Linder	Expression of murine semaphorins 4F and 7A in the thymus and their possible roles in guiding T cell development
Gary Erickson	Art	Annalee Levin	Investigating Chinese techniques in creating and decorating large-scale porcelain tile
Paul Fischer	Chemistry	Aaron Heerboth	A Quest for Dative Metal-Metal Bonds with Zerovalent Group VI Metal Donors
Janet Folina	Philosophy	Michael McNulty	Visual Evidence in Mathematics
Cary Franklin	Music	Drake Andersen	"Music of the Hispanic World"
John Haiman	Linguistics	Stephanie Farmer	A Student's Working Dictionary of Khmer
Mary Hark	Art	Peter Myers	Fabrications of Physics: Using Scientific Language in the Creation of Fabric Paintings
Becky Hoye	Chemistry	Tim Lee	The Synthesis of a Xestospongins C Derivative
Kiarina Kordela	German and Russian Studies	Sophie Smith	Dying Out: The Politics of Death and American Local and Global Equity
Keith Kuwata	Chemistry	Emily Guinn	Quantum Chemical Studies of the Impact of Amine Oxides on the Alkene Ozonolysis Mechanism
Karine Moe	Economics	Adam Kent	The Impact of School Finance Reform on Residential Sorting and Student Achievement
Bill Moseley	Geography	Michaela Palchick	Agricultural Transformation and Livelihood Struggles in South Africa's Western Cape
Binnur Ozkececi-Taner	Political Science	Zachary Devlin-Foltz	The Fundamentals of Security: Jihadism in Failed and Failing States
Roopali Phadke	Environmental Studies	Anna Goldberg	Drought and Development: Examining NGO Efficacy in Rajasthan, India
Raymond Robertson	Economics	Xi Luo	How does Trade Liberalization Affect Post-displacement Wages?
Ray Rogers	Geology	Sophia Kast	Mahajanga Basin Project: Reconstructing Climate in the Late Cretaceous of Madagascar
Libby Shoop	Math/Computer Science	Jen Hao Cheng	Completion of An Integrated System of Genome Analysis and Visualization Tools
Laura Smith	Geography	Michael Samuelson	Examining Homeowner Retention After Mortgage Foreclosure in the

			Twin Cities
Karl Wirth	Geology	Alexandros Konstantinou	Evolution of the North American Midcontinent Region: Evidence From U-Pb Ages of Detrital Zircons

2008

<u>Professor</u>	<u>Department</u>	<u>Student</u>	<u>Purpose</u>
Sarah Boyer	Biology	Suzy Szumowski	Population Genetic Structure of Freshwater Mussels Above and Below the St. Croix Falls Dam
David Bressoud	Math	Jacob Bond	Explorations in Number Theory
John Cannon	Biology	Hans Most	Multiwavelength Diagnostics of Dwarf Galaxy Evolution
Devavani Chatterjea	Biology	Carolina Mora Solano	The Involvement of Mast Cells in Inflammatory Pain
Liang Ding	Economics	Manoj Vemula	The Impact of Electronic Trading Systems on the Foreign Exchange Market
James Doyle & Keith Kuwata	Chemistry	Jennifer Barnes	Electrodeposition of Copper Indium Diselenide for Solar Cell Applications
Susan Fox	Math / Computer Science	Sean Cooke	Robot navigation focusing on vision and multiple robot platforms.
Helen Hazen	Geography	Christine Chung	HIV/AIDS & Gender: Factors contributing to the vulnerability of young females to HIV/AIDS in Jamaica
Devavani Chatterjea	Biology	Michela Bolla	Migration of Human Peripheral T Cells in Response to Semaphorin 7A
David Lanegran	Geography	Abbe Tofte	Land Use Change in Minnesota's Iconic Landscape: The North Shore of Lake Superior
Andrew Latham	Geography	Kabir Sethi	War and World Order: Theorizing Organized Political Violence in the Transmodern Era
Roopali Phadke	Environmental Studies	Avery Bowron	Enframing the Viewshed: Deliberative Democracy Experiments in the Wind Energy Age
Joe Rife	Classics	Jaclyn Baker	The Impact of Taphonomic Factors on Archaeological Bone in the Roman Cemetery at Kenchreai, Greece.
Raymond Robertson	Economics	Cael Warren, Philippa Anastos, Jamie Moore	Globalization and Working Conditions in Cambodia, Working with the International Labor Organization
Stan Sears	Art	Andrew Bonadio	With Our Bare Hands: Experimental Landscape Design
Libby Shoop	Biology	Adam Oien	Integrated Genome Data Exploration Tools
Laura Smith	Geography	Megan Macpherson	"The Bus Stops Here:" Place-Making and Transit-Justice Issues in the Twin Cities Public Transportation System

Katie Splan	Chemistry	Charles Cosimini	Characterization of Bivalent Peptides That Target Inhibitor of Apoptosis Proteins.
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