Introduction from the Dean

It all starts here.

The College of Arts and Sciences is the intellectual core of the University at Albany. In addition to providing the vast array of courses that comprise the majority of the University’s instructional program, our researchers, scholars, scientists, clinicians, artists, musicians and authors are actively producing original and ground-breaking work in their respective fields. We have attempted to capture much of that work in this document so that it can be shared with our colleagues throughout the University community and beyond.

This compendium is evidence of the complexity and breadth of scholarship and research in the College. I believe that this complexity is one of the College’s greatest strengths. Cutting-edge work expands, crosses, or exists between the boundaries of the traditional disciplines. By housing a faculty of such a diverse range of talents, the College fosters a culture of collaboration that in turn supports inter- and trans-disciplinary research and scholarship. As a result, innovation truly does begin here in the College of Arts and Sciences.

In this compendium, we are presenting funded research as well as published peer-reviewed articles, chapters, books, and artistic and creative endeavors. The accomplishments of our faculty are of course not limited to the aforementioned, but also include many other scholarly contributions such as research reports, conference presentations, and service on national committees. However, because of the large number of College faculty we had to limit the size of the compendium. We have done our best to provide an accurate and comprehensive review. The data are based on faculty activity reports (May 1, 2013 - April 2014) and Research Foundation reports (fiscal year 2013-14).

I am immensely proud of the achievements of the College faculty. This compendium clearly demonstrates the breadth of activities pursued and the terrific impact our outstanding faculty are making in their respective fields. My congratulations to all who contributed this past year to our collective success.

Edelgard Wulfert
DEAN OF THE COLLEGE OF ARTS & SCIENCES
PROFESSOR OF PSYCHOLOGY
COLLINS FELLOW

PHOTO BY: Mark Schmidt
2014 Awards for Excellence
Faculty and Professional Staff Recipients in the College of Arts and Sciences

Cristian Lenart
MATHEMATICS & STATISTICS
Chancellor's Award for Excellence in Research and Creative Activity

Marina Petrukhina
CHEMISTRY
Chancellor's Award for Excellence in Research and Creative Activity

Anthony DeBlasi
EAST ASIAN STUDIES
Chancellor's & President's Awards for Excellence in Academic Service

Charles Hartman
EAST ASIAN STUDIES
President's Award for Excellence in Research and Creative Activity

Igor Lednev
CHEMISTRY
President's Award for Excellence in Research and Creative Activity

Michael Sattinger
ECONOMICS
President's Award for Excellence in Research and Creative Activity

Jeannine Chandler
HISTORY
President's Award for Excellence in Teaching

David Strait
ANTHROPOLOGY
Chancellor's & President's Awards for Excellence in Teaching

Kathleen Gersowitz
OFFICE OF THE DEAN
Chancellor's & President's Awards for Excellence in Professional Service
Faculty Publications & Intellectual Contributions

Source: Annual faculty activity reports for the period May 1, 2013 to April 30, 2014.

AFRICANA STUDIES

Kendi, Ibram

Slade Jr, Leonard

Sutherland, Marcia

ANTHROPOLOGY

Andaya, Elise

Bickmore, Lee

Broadwell, George

Burkhart, Louise

Burrell, Jennifer

Collins, James

Gage, Timothy

Gordon, Adam
Street Economies in the Urban Global South


This book focuses on the economic, political, social, and cultural dynamics of street economies across the urban Global South. Although contestations over public space have a long history, Street Economies in the Urban Global South presents the argument that the recent conjuncture of neoliberal economic policies and unprecedented urban growth in the Global South has changed the equation. The detailed ethnographic accounts from post-socialist Vietnam to a struggling democracy in the Philippines, from the former command economies in Africa to previously authoritarian regimes in Latin America, focus on the experiences of often marginalized street workers who describe their projects and plans. The contributors to Street Economies in the Urban Global South highlight individual and collective resistance by street vendors to overcome numerous processes that exacerbate the marginality and disempowerment of street economy work. (Publisher)

Masson, Marilyn (cont.)

Perez Rodriguez, Veronica

Rosenswig, Robert


Schell, Lawrence


Little, Walter
Little, W., Tranberg Hansen, K., Milgram, B. (Eds.). Street Economies in the Urban Global South. Santa Fe, NM: School for Advanced Research, 2013.


Masson, Marilyn
Professor James Collins Awarded Fulbright Fellowship, Studies Language and Connects Scholars in South Africa

Professor James Collins, Department of Anthropology, was awarded a Fulbright Teaching/Research Fellowship to be in South Africa from January to July of 2014. Recipients of Fulbright awards are selected by the J. William Fulbright Scholarship Board, which is appointed by the President and establishes worldwide policies for the Fulbright Program. Fulbright awards are highly prestigious and many UAlbany faculty members have benefited from them.

Collins’ project “After Apartheid & Jim Crow: A framework for examining language diversity, civil rights and social inequalities in contemporary South Africa and the United States” addresses pressing social issues in the U.S. and the R.S.A. and aims to help build research capacity in South Africa. His course initiated graduate research student exchanges between the (historically white) University of Cape Town and (historically black) University of the Western Cape, a goal that the Cape Town sponsors at both institutions strongly supported. Working with colleagues and graduate students at both universities, he conducted research on language diversity, language policy, and educational inequality. This research is affiliated with the international Superdiversities Research Network that connects scholars in Europe, Africa, Asia, and North America.

Collins’ research typically combines analysis of linguistic practices with ethnographic research oriented to theoretical debates about power, identity and inequality. He has conducted field-based research conducted fieldwork in rural Native American communities, multi-ethnic urban communities in the U.S. and, most recently, multilingual migrant communities in Belgium and upstate New York. At UAlbany he regularly teaches courses in linguistics, language and culture, and discourse analysis.


**Christie, Leona**


**Dressler, Rachel**


**Frelin, Adam**


Frelin, A. (2013). Artwork for the exhibition Contemporary Sculpture at Chesterwood. Accepted/commissioned work. Stockbridge, MA.


**Galembo, Phyllis**


**Goodwin, Danny**


**Goodwin, D.**


**Mayer, Edward**


**ATMOSPHERIC & ENVIRONMENTAL SCIENCES**

**Bosart, Lance**


**Dai, Aiguo**


**Elison Timm, Oliver**


ALBANY, N.Y. (April 21, 2014) -- University at Albany Professor of Photography Phyllis Galembo has been awarded a John Simon Guggenheim Memorial Foundation Fellowship for 2014. Galembo is among 178 scholars, artists and scientists honored from a pool of almost 3,000 applicants across the U.S. and Canada. “This honor represents extraordinary recognition of Professor Galembo’s talent and dedication to her art,” said Edelgard Wulfert, Dean of UAlbany’s College of Arts and Sciences. “It highlights her prior achievements and exceptional promise, as well as the significance of the arts at the University at Albany.”

A full professor at UAlbany since 1997, Galembo photographs cultural and religious traditions as well as the transformative power of ritual dress in Africa and the Americas. Her interest in these traditions began in 1985 during her first visit to Nigeria. Since then she continues to travel, making portraits at masquerade events and ceremonies. Galembo plans to return to West Africa to continue her work.

Last year, Galembo’s work was exhibited in Il Palazzo Enciclopedico (The Encyclopedic Palace) at la Biennale di Venezia, curated by Massimiliano Gioni, Venice, Italy. The Venice Biennale is one of the most significant exhibitions in the contemporary art world. Included in the exhibit were eight large-scale color prints presenting figures from Galembo’s Ghana series.

She has had one-person exhibitions at the International Center for Photography and the American Museum of Natural History, and has exhibited at the Smithsonian Institution. Her work has been collected by the Library of Congress, Metropolitan Museum of Art, Museum of Fine Arts in Houston, Albany Institute of History and Art, Philadelphia Museum of Art, and Schomburg Center for Research in Black Culture.

The author of four books, Galembo has an MFA in Photography/Printmaking from the University of Wisconsin, Madison, and has been the recipient of a Fulbright Scholar Senior Research Award to Nigeria. In connection to her work and exhibits Galembo has appeared on CNN, NPR Radio and NBC Today in New York City.

Since its establishment in 1925, the Guggenheim Foundation has granted more than $315 million in fellowships to almost 17,700 individuals, among whom are scores of Nobel laureates and poets laureate, as well as Pulitzer Prize-winners and Fields Medalists. (UAlbany NewsCenter)
Idone, Vincent

Kee see, Robert

Keyser, Daniel


Liu, Jiping


Minder, Justin

Molinari, John

Rose, Brian


Roundy, Paul

Professor Daniel Keyser, Department of Atmospheric and Environmental Sciences, received the Edward N. Lorenz Teaching Excellence Award from the American Meteorological Society

He was honored for his “... landmark contributions to synoptic and mesoscale meteorology education.” (AMS)


Tang, Brian

Thorncroft, Christopher


**BIOLOGICAL SCIENCES**

**Agris, Paul**


Cantara, W., Murphy, 4th, F., Demirci, H., Agris, P. (2013). Expanded use of sense codons is regulated by modified cytidines in tRNA. *Proceedings of the National Academy of Sciences, 110*(27).


**Belfort, Marlene**


Caraco, Thomas

Chen, Hajun

Forni, Paolo

Ghiradella, Helen

Larsen, Melinda


Li, Pan


Lnenicka, Gregory

Robinson, George

Shi, Hua


Szaro, Ben

Wang, Sho-Ya

**CHEMISTRY**

Block, Eric

Dikarev, Evgeny


Fabris, Daniele


Halamek, Jan


Lednev, Igor


Musah, Rabii


Niu, Li


Imagined Sovereignties: Toward a New Political Romanticism


Imagined Sovereignties argues that the Romantics reconceived not just the nature of aesthetic imagination but also the conditions in which a specific form of political sovereignty could be realized through it.

Articulating the link between the poetic imagination and secularized sovereignty requires more than simply replacing God with the subjective imagination and thereby ratifying the bourgeois liberal subject. Through close readings of Blake, Coleridge, Wordsworth, and Shelley, the author elucidates how Romanticism’s reassertion of poetic power in place of the divine sovereign articulates an alternative understanding of secularization in forms of sovereignty that are no longer modeled on transcendence, divine or human.

This book will be a crucial source for those interested in the political legacy of Romanticism, as well as for anyone concerned with critical theoretical approaches to politics in the present. (Publisher)


Sheng, Jia


Shepard, Jason

Lesiak, A., Shepard, J. (2014). Recent advances in forensic drug analysis by DART-MS. *Bioanalysis, 6*(6), 819-842.


Welch, John


Yigit, Mehmet


**COMMUNICATION**

Golden, Annis

Harrison, Teresa

Matsaganis, Matthew


Roberts, Nancy


Seo, Mihye

Zemel, Alan


**EAST ASIAN STUDIES**

**Byon, Andrew**


**Chen, Fan Pen**


**DeBlasi, Anthony**


**ECONOMICS**

**Daniel, Betty**


**Liang, Zhongwen**


**Satttinger, Michael**


**Yoruk, Baris**


**ENGLISH**

**Barney, Richard**


**Bass, Thomas**


**Berman, Jeffrey**


**Chu, Patricia**


**Cohen, Thomas**


**Ebert, Teresa**


**Fretwell, Erica**


**Greiman, Jennifer**


**Joris, Pierre**

Keenanaghan, Eric

Kuiken, Kir

Lilley, James

Murakami, Ineke

Scheck, Helene

Tillman, Lynne

Yalkut, Carolyn

**GEOGRAPHY & PLANNING**

Bromley, Ray


Huang, Youqin


**Empires in World War I: Shifting Frontiers and Imperial Dynamics in a Global Conflict Empires in the First World War**


Soon after the guns in Belgium and France had signalled the commencement of what would become the world’s single most destructive conflict to date, the British, Ottoman, German, Russian, Austro-Hungarian, French and Belgian Empires were at war. *Empires in World War I* marks a turn away from the pre-eminence of the Western Front in the current scholarship, and seeks to reconstitute our understanding of this war as a truly global struggle between competing empires. Based on primary research, this book opens up new debates on the effects of the Great War in colonial arenas. The book assesses the effects of the war on Native Americans in the United States for example, as well as on the relationship between India and Pakistan, the British justice system in Palestine and the ‘imperial scramble’ in the Asia-Pacific region. *Empires in World War I* will be essential reading for students and scholars of the twentieth century. (Publisher)
Some of the most important writers of the twentieth century, including Borges, Cortázar, Rulfo, and García Márquez, have explored ambiguous sites of a disquieting nature. Their characters face merging perspectives, deferral, darkness, or emptiness. Such a space is neither a site of projection (as utopia or dystopia) nor a neutral setting (as the topos). For the characters, it is real and active, at once elusive and transforming. Despite the challenges of visualizing such slippery spaces, filmic experimentations in Spanish American cinema since the 1960s have sought to adapt these texts to the screen. Ilka Kressner's *Sites of Disquiet* examines these representations of alternative dimensions in Spanish American short narratives and their transformations to the cinematic screen. The study is informed by contemporary critical approaches to spatiality, especially the concepts of atopos (non-space), spaces of mobility, sites of différence, of a self-effacing presence, and sonic spaces. (Publisher)
Gauss, Susan

Kizenko, Nadieszda


Monfasani, John


Nold, Patrick

Schwaller, John

Smith-Howard, Kendra


Trachtenberg, Barry

Zahavi, Gerald


LANGUAGES, LITERATURES, & CULTURES
Baran, Henryk


LATIN AMERICAN, CARIBBEAN & US LATINO STUDIES


MATHEMATICS & STATISTICS


**MUSIC**

Cumming, Duncan
Cumming, D., Cumming, H., Dikener, S. (2013). Performances by The Capital Trio. Various programs. Huntington, WV (residency); Charleston, WV; Ironton, OH; Albany, NY; East Greenbush, NY; Boston, MA.

Cumming, D., Cumming, H. (2014). Performances by The Capital Duo. Various programs. East Greenbush, NY; Lewiston, ME; Boston, MA; Falmouth, ME; Copenhagen, Denmark; Biesle, France.


**PHILOSOPHY**

Armour-Garb, Bradley


Cohon, Rachel

D'Cruz, Jason

Hessler, Kristen


Howell, Robert


Magnus, Paul


Mandle, Jonathan


Powers, Nathan


Steinbock, Bonnie


Lanford, William


Lunin, Oleg

MacDonald, Carolyn

Szydagis, Matthew


Caticha, Ariel


Goyal, Philip

Knuth, Kevin
Professor Jeanette Altarriba, Department of Psychology and Vice Provost for Undergraduate Education, was elected Fellow of the Association for Psychological Science

APS is dedicated to the advancement of scientific psychology and its representation at the national and international level.


Earleywine, Mitchell


Feldman, Laurie


Ford, Michael

Forsyth, John

Friedman, Ronald

Gallup Jr, Gordon

Richard Lachmann
PROFESSOR
DEPARTMENT OF SOCIOLOGY

What is Historical Sociology?
Chichester: Polity Press, 2013

Sociology began as a historical discipline, created by Marx, Weber and others, to explain the emergence and consequences of rational, capitalist society. Today, the best historical sociology combines precision in theory-construction with the careful selection of appropriate methodologies to address ongoing debates across a range of subfields.

This innovative book explores what sociologists gain by treating temporality seriously, what we learn from placing social relations and events in historical context. In a series of chapters, readers will see how historical sociologists have addressed the origins of capitalism, revolutions and social movements, empires and states, inequality, gender and culture. The goal is not to present a comprehensive history of historical sociology; rather, readers will encounter analyses of exemplary works and see how authors engaged past debates and their contemporaries in sociology, history and other disciplines to advance our understanding of how societies are created and remade across time. (Publisher)
Halpern, Leslie

Hormes, Julia


Israel, Allen

McCaffrey, Robert


McNay, Ewan


Muraven, Mark


Prelow, Hazel

Roch, Sylvia


Wagner, Christine

Williams, Kevin


Wulfert, Edelgard


SOCIOLGY
Berman, Elizabeth


Bose, Christine

Chung, Angie
Study by Professor Samantha Friedman, Department of Sociology: For Blacks in America, Home Ownership Does Not Mitigate Residential Segregation

ALBANY, N.Y. (August 27, 2013) -- While home ownership has long been a key to affluence and a symbol of the American dream, blacks owning homes may not reap the same as whites and other minorities in metropolitan America, a University at Albany study finds.

In a study published in August in the journal Demography, sociologist Samantha Friedman finds that while blacks have had steadily increasing success in achieving home ownership, it has not been enough for them to gain proximity to whites and attendant opportunities to accrue wealth.

The analyses reveal that the segregation of black renters relative to whites is significantly lower than the segregation of black owners from whites, all other factors being equal. However, this is not the case for Hispanics and Asians. The segregation of Hispanic and Asian renters from whites is greater than that of Hispanic and Asian owners from whites.

Home ownership is one of the primary ways through which families accumulate wealth, particularly for blacks and Hispanics. According to the 2002 U.S. Census Bureau, black and Hispanic households invested 61.1 percent and 58.5 percent of their net worth, respectively, in the ownership of their homes; for non-Hispanic whites and Asians, the rates were 41.7 percent and 42.7 percent, respectively.

According to the same census-based report, in 2002, the median net worth of U.S. households with a non-Hispanic white householder was $87,056, more than 15 times the median net worth of households with a black householder ($5,446), more than 10 times that of Hispanics ($7,590), and nearly 1.5 times that of Asians ($59,292). Moreover, a report from the Pew Hispanic Center found that between 2005 and 2009, the median wealth of Hispanic and black households fell by 66 percent and 53 percent, respectively, but for whites it fell by only 16 percent.

“The disparity in wealth between minorities and whites persists as one of the most salient fault lines in the United States,” said Friedman. “Contrary to the notion that home ownership represents an endpoint in the residential assimilation process, for blacks it does not necessarily accompany a decline in residential segregation. This obviously has significant and immediate implications for the future of racial and ethnic inequality in American society.”

It is likely, Friedman says, that discrimination in the mortgage market -- and in particular, the fact that blacks have been more likely than whites to acquire subprime loans -- has contributed to this pattern. (UAlbany NewsCenter)

Deane, Glenn


Denton, Nancy


Dreby, Joanna


Zetka, James


**THEATRE**

Lyons, Andi


Szalczer, Eszter


**WOMEN’S, GENDER & SEXUALITY STUDIES**

Sutton, Barbara


Professor Lance Bosart, Department of Atmospheric and Environmental Sciences, has been elected a fellow of the American Association for the Advancement of Science (AAAS), a leading international organization whose mission is to “advance science, engineering, and innovation throughout the world for the benefit of all people.” Dr. Bosart is an accomplished researcher and one of the world’s leading experts in the field of synoptic/dynamic meteorology, the study of large-scale (1000+ kilometers) weather systems.

Dr. Bosart joined the University at Albany faculty in 1969 and has spent his career building an impressive research portfolio, traveling across all five continents investigating a diverse range of research problems. The empirical methods he uses and the discoveries he makes carry over into the classroom where he actively engages his students in discussions driven by research. His graduate students have gone on to prestigious postings in academic, scientific, and governmental organizations all over the world.

For his contributions to research, teaching, and service, Dr. Bosart has received numerous awards and commendations over the years. Recent honors include the National Weather Association’s Lifetime Achievement Award, the American Meteorological Society’s (AMS) Jule Charney Award, and the first AMS Teaching Excellence Award. In addition, the State University of New York Board of Trustees promoted Dr. Bosart to Distinguished Professor in 2004, the highest academic rank in the SUNY System.

Election as a fellow is significant achievement in the scientific community. Individuals are nominated and then elected by current AAAS fellows. In recognition of their accomplishments, this year’s class of fellows will each receive a blue and gold rosette along with a certificate. In addition, their names were printed in the November 29, 2013, edition of Science.

With the election of Dr. Bosart, the faculty of the College of Arts and Sciences now includes four AAAS Fellows, pictured above. Eric Block (left), Carla Rizzo Delray Distinguished Professor of Chemistry, was elected a fellow in 2012 and Marlene Belfort (center), Distinguished Professor of Biological Sciences, and Lawrence Schell (right), Professor of Anthropology, were elected in 2007.
Funded Projects

Information provided by the Research Foundation for fiscal year 2014 (7/1/13 - 6/30/14). Projects are listed alphabetically by department and principal investigator. Centers, institutes, and other units within the College to which projects are fully or partially credited are listed where appropriate.

**ANTHROPOLOGY**

**Masson, Marilyn**  
Changing Agrarian Foundation of Urban Life at Mayapan  
NATIONAL SCIENCE FOUNDATION  
$102,418

**Rafferty, Sean**  
Northeast Anthropology Journal  
MULTIPLE SPONSORS  
$4,341

**Rosenswig, Robert**  
Doctoral Dissertation Research: Izapa Household Archaeology Project  
NATIONAL SCIENCE FOUNDATION  
$25,169

**Schell, Lawrence**  
Exploratory Center on Minority Health and Health Disparities in Smaller Cities- Year 5  
Center for the Elimination of Minority Health Disparities  
NATIONAL INSTITUTES OF HEALTH  
$624,100

**Williams, Kevin**  
Graduate Research Fellowship Award- Rebecca Mendelsohn  
NATIONAL SCIENCE FOUNDATION  
$226,000

**ATMOSPHERIC & ENVIRONMENTAL SCIENCES**

**Bosart, Lance**  
Utilizing NASA Reconnaissance Assets to Investigate Hurricane Upper-Level Warm Core Evolution, Inner Core Pulsing, and Near-Environment Moisture Interactions  
NASA EARTH SCIENCE ENTERPRISE  
$20,000

**Phenomenological Studies of Cool-Season Extreme Weather Events over Central and Eastern North America on Intraseasonal Time Scales**  
NATIONAL SCIENCE FOUNDATION  
$663,221

**Bosart, Lance (cont.)**  
High Plains Convection: Diurnally Varying Mesoscale-Synoptic Scale Interactions over Complex Terrain During Mpex  
NATIONAL SCIENCE FOUNDATION  
$121,650

**Corbosiero, Kristen**  
Investigating the Influence of Vertical Wind Shear on Tropical Cyclone Structure and Intensity  
NASA EARTH SCIENCE ENTERPRISE  
$100,000

**Collaborative Research with the National Weather Service on the Occurrence and Predictions of High-Impact Precipitation Events in the Northeastern United States**  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
$125,000

**Dai, Aiguo**  
Natural Variations and Forced Changes in Historical and Future Precipitation and Drought  
NATIONAL SCIENCE FOUNDATION  
$499,886

**Delano, John**  
Setting the Stage for Life: From Interstellar Clouds to Early Earth and Mars  
NASA AMES RESEARCH CENTER  
$62,045

**Idone, Vincent**  
Supplement to Lightning Initiation, Propagation, Attachment, and Upper Atmosphere and Ionsospheric Effects  
DEFENSE ADVANCED RESEARCH PROJECT AGENCY  
$44,878

**Johnson, Roberta**  
Collaborative Research: Understanding and Overcoming Barriers to Communication in Complex Socio-Ecological Systems  
RESEARCH FOUNDATION OF STATE UNIVERSITY OF NY  
$6,360

**Keyser, Daniel**  
An Investigation of Lower-Tropospheric Meteorological Processes that Impact the Evolution of Wildland Fires  
USDA FOREST SERVICE  
$35,000
Liu, Jiping
*Integrated Analysis of Atmospheric Water Cycle in Intense Marine Storms*
NASA GODDARD SPACE FLIGHT CENTER
$49,970

Minder, Justin
*CAREER: The Mesoscale Climate Dynamics of Rocky Mountain Snowpack Depletion*
NATIONAL SCIENCE FOUNDATION
$570,640

Molinari, John
*Subtropical Gyres: Formation, Dynamics, and Climatology*
NATIONAL SCIENCE FOUNDATION
$475,693

Roundy, Paul
*Outflow Layer Dynamics and Thermodynamics and Tropical Cyclone Intensity Change*
US NAVY OFFICE OF NAVAL RESEARCH
$35,085

Thornicroft, Christopher
*Climate Change and Extreme Weather in NY State and Its Impact on Inland and Coastal Flooding*
RESEARCH FOUNDATION OF STATE UNIVERSITY OF NY
$10,000

Torn, Ryan
*Sources and Growth of Initial Condition Errors in Convection-Resolving Forecasts in MPEX*
NATIONAL SCIENCE FOUNDATION
$106,787

Wang, Junhong
*Complete Error Characterization of the DISCOVER Earth System Data Records*
NASA EARTH SCIENCE ENTERPRISE
$206,426

**BIOLOGICAL SCIENCES**

Agris, Paul
*Aptamer-Based Sensor for Early Detection of Alzheimer Disease*
The RNA Institute
UNIVERSITY AT ALBANY
$80,000

Climate Change Research at UAlbany Produces Weather Summer Camp for Capital District High School Students

ALBANY, N.Y. (April 3, 2014) -- Justin Minder, assistant professor in the University at Albany’s Department of Atmospheric and Environmental Sciences (DAES), will bring students from several area urban high schools to campus starting in 2015 for a new summer weather and climate change day camp. The camp is one aspect of a $570,640 five-year grant Minder has been awarded from the National Science Foundation’s Faculty Early Career Development Program (CAREER), given to junior faculty who exemplify the role of teacher-scholars through outstanding research, excellent education, and the integration of education and research within the context of the mission of their organizations. Minder was one of the first hires to support the University’s SUNY 2020 program.

Minder will partner with two high school teachers from Albany and Troy for the new summer camp, where high school students will learn about weather and climate from DAES department faculty and graduate students. Activities will include forecasting, field measurements, laboratory experiments, a trip to the National Weather Service, and a trip to the Whiteface Mountain Observatory in the Adirondacks. The camp is funded through summer 2018.

The camp is part of Minder’s study, The Mesoscale Climate Dynamics of Rocky Mountain Snowpack Depletion. The research goal is to better understand how the snow-cover loss in the Rocky Mountains and other mountain ranges due to global climate change leads to variations in weather and climate in, and near, the mountains.

His work will make use of state-of-the-art model simulations that are capable of demonstrating how clouds, snow, temperatures, and humidity vary over distances of just a few miles. The research will also include high-resolution satellite observations to evaluate how well climate models simulate mountain snow cover. (UAlbany NewsCenter)
Agris, Paul (cont.)
Drug Discovery and Development of Novel Antibiotics Against Gram Positive Pathogens
The RNA Institute
RESEARCH FOUNDATION OF STATE UNIVERSITY OF NY
$150,000

Thermo Fisher Student Venture Fund (TMO SVF)
The RNA Institute
THERMO FISHER SCIENTIFIC
$66,950

Belfort, Marlene
Intron Dynamics in Bacteria- Year 26 funds
The RNA Institute
NATIONAL INSTITUTES OF HEALTH
$524,051

Transfer Grant GM039422-Intron Dynamics in Bacteria
The RNA Institute
NATIONAL INSTITUTES OF HEALTH
$58,223

Chen, Haijun
Cardiac Background Potassium Channels in Hypokalemia
AMERICAN HEART ASSOCIATION FOUNDERS AFFILIATE
$66,000

Dynamic Ion Selectivity of K2P Channels and Paradoxical Depolarization
NATIONAL INSTITUTES OF HEALTH
$276,691

Hirsch, Helmut
QTL and Microarray Mapping Lead Sensitivity Genes
Center for Neuroscience Research
NATIONAL INSTITUTES OF HEALTH
$68,400

Larsen, Melinda
Engineering Functional Salivary Glands Using Micropatterned Scaffolds
The RNA Institute
NATIONAL INSTITUTES OF HEALTH
$961,067

Tensational Homeostasis-Dependent Control of Tissue Integrity
The RNA Institute
ALBANY MEDICAL COLLEGE
$110,000

Li, Pan
REU: A Single-Molecule Investigation of Molecular Crowding Effect on RNA Folding
The RNA Institute
NATIONAL SCIENCE FOUNDATION
$6,000

REU: Investigate Interactions between the Retroviral DIS Hairpins
The RNA Institute
NATIONAL SCIENCE FOUNDATION
$100,000

Molloy, Daniel
A Color Test Strip Protocol for Identifying Live Dreissenid Mussels
US FISH AND WILDLIFE SERVICE
$58,025

Osuna, Robert
Regulation of dksA in E.coli
NATIONAL SCIENCE FOUNDATION
$174,424

Pager, Cara
The Role of RCK/p54 in HCV Gene Expression
The RNA Institute
AMERICAN ASSOCIATION FOR THE STUDY OF LIVER DISEASE
$75,000

Robinson, George
Summer Senior Research Fellow
EDMUND NILES HUYCK PRESERVE INCORPORATED
$10,000

Aphid Like Biosensors for Ecosystem Studies: NANAPHID Proof of Concept (Andrei Lapenis, PI)
RESEARCH FOUNDATION OF STATE UNIVERSITY OF NY
$67,500

Szaro, Ben
REU Supplement for IOS 1257449; Post-Transcriptional Control of Cytoskeletal Genes Required for Axon Outgrowth-Pre Doc Fellowship
NATIONAL SCIENCE FOUNDATION
$5,000

Wang, Ing-Nang
The Evolution of Bacteriophage Life History Traits
The RNA Institute
NATIONAL INSTITUTES OF HEALTH
$261,846

Phylogeographic Dynamics of a Vector and Pathogen in a Natural Environment
NATIONAL INSTITUTES OF HEALTH
$64,292

Wang, Sho-Ya
Therapeutic Na+Channel Blockers: Receptor & Drug Design
NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES
$75,750

Wulff, Daniel
Upstate NYS JSHS 2013-2014
University in the High School
ACADEMY OF APPLIED SCIENCES
$15,900

Support for Junior Science & Humanities Symposium (JSHS)- University in High School Program
University in the High School
MULTIPLE SPONSORS
$14,481

CHEMISTRY

Block, Eric
Synthetic Organosulfur and Organoselenium Chemistry
NATIONAL SCIENCE FOUNDATION
$150,000

Dikarev, Evgeny
MRI: Acquisition of Single Crystal X-Ray Diffractometer for Research and Teaching
NATIONAL SCIENCE FOUNDATION
$233,800

Supplemental Funding for NSF Funded Project Entitled: Preparation of Heterometallic Beta-Diketonates: New Class of SINGLE-SOURCE PRECURSORS FOR THE SOFT CHEMISTRY APPROACH
$32,000
Fabris, Daniele
Structural Determinants of HIV-I 5'-UTR in Virions and Infected Cells
NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES
$319,762

Lednev, Igor
Alzheimers Disease Diagnostics Based on Raman Spectroscopy of Blood: Method Selectivity Relative to Other Types of Dementia
$85,000
Year 3- Structural Characterization of Amyloid Fibrils Using Deep UV Raman Spectroscopy
NATIONAL INSTITUTES OF HEALTH
$203,298

Musah, Rabi
GOALI: Plant Derived Biogenic Sulfur Emissions and the Environment
NATIONAL SCIENCE FOUNDATION
$410,000

Niu, Li
Characterizations of Chemically Modified Aptamers as New ALS Drug Candidates
MUSCULAR DYSTROPHY ASSOCIATION OF AMERICA
$135,000

Pande, Jayanti
Year 3 Funds- Gamma Crystallin Modifications and Mechanisms of Lens Opacity
NATIONAL EYE INSTITUTE
$314,590

Petrukhina, Marina
Joint Theoretical-Experimental Quest for Novel Carbon-Based Materials for Energy-Related Applications
RESEARCH FOUNDATION OF STATE UNIVERSITY OF NY
$135,000

Shekhtman, Alexander
In-Cell NMR Technology to Study Protein Interactions-Year 3
NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES
$225,625

The Role of Spartin in Autophagy of Lipid Droplets: Implications for SPG2I Disease
NATIONAL INSTITUTES OF HEALTH
$8,814

High Throughput Screening of the Library Compounds to Block RAGE Signaling
JUVENILE DIABETES FOUNDATION INTERNATIONAL
$77,151

Shepard, Jason
Statistical Analysis and Forensics Determination of Designer Drugs via Direct Analysis in Real Time Mass Spectrometry (DART-MS)
NATIONAL INSTITUTE OF JUSTICE
$284,562

Sample Collectors for Rapid Direct Ionization in Real Time (DART)
US DEPARTMENT OF HOMELAND SECURITY
$32,481

Welch, John
Inhaled Pyrazinoic Acid Esters for the Treatment of Tuberculosis
NATIONAL INSTITUTES OF HEALTH
$25,000

SIRT6: A Target for the Antimycobacterial Agent Pyrazinamide
NATIONAL INSTITUTES OF HEALTH
$130,261

EAST ASIAN STUDIES
DeBlasi, Anthony
University at Albany-Southwest University for Finance and Economics Confucius Institute for China’s Culture and the Economy
CONFUCIUS INSTITUTE OF CHINA
$120,000

ECONOMICS
Marschke, Gerald
Innovation in an Aging Society
NATIONAL INSTITUTES OF HEALTH
$52,760

Yoruk, Baris
The Effect of Sunday Alcohol Laws on Alcohol Consumption and Related Outcomes
NATIONAL INSTITUTES OF HEALTH
$64,891

ENGLISH
Bass, Thomas
U.S.-Tunisian Partnership in Journalism
U.S. DEPARTMENT OF STATE
$250,000

GEOGRAPHY & PLANNING
Huang, Youqin
The Impact of Migration on Children in Transitional China
NATIONAL INSTITUTES OF HEALTH
$143,483

Lapenis, Andrei
Aphid Like Biosensors for Ecosystem Studies: NANAPHID Proof of Concept
RESEARCH FOUNDATION OF STATE UNIVERSITY OF NY
$67,500

Lawson, Catherine
Pre Doctoral Fellowship: AITE 2013-2014
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK
$75,000

Integration of Bus Stop Count Data with Census Data for Improving Bus Service and Efficiency
US DEPARTMENT OF TRANSPORTATION
$210,002

HISTORY
McCormick, Susan
NYS COUNCIL ON THE HUMANITIES
$3,000
UAlbany Data Scientists Leading Nationwide Initiative to Improve Transportation

ALBANY, N.Y. (March 18, 2014) — Applying pioneering web-based solutions, UAlbany associate professor and Lewis Mumford Center Director Catherine T. Lawson and the Albany Visualization And Informatics Lab (AVAIL), have been selected by the Federal Highway Administration (FHWA) to lead a multi-state initiative to advance transportation planning in such areas as truck routing, pollution control, travel safety, traffic patterns, and more.

The UAlbany team has been awarded an initial $150,000 from FHWA’s Transportation Pooled Fund Program, which is supported by several states’ departments of transportation (DOTs). Utilizing innovative techniques, AVAIL will create software to enable government agencies, academic institutions, private industry and the general public to benefit from improved data visualization and analysis.

“Back in 1998, I met with Federal Highway Administration staff to talk about a future where archived Weigh-in-Motion (WIM) data would be visualized to enhance evidence-based transportation planning – and the future is finally here,” said Lawson, who is chair of UAlbany’s Department of Geography and Planning.

AVAIL is gaining momentum as a leading data science group within the Mumford Center. Its mission is to empower a new generation of students to assimilate computer science knowledge and subject-matter expertise within the field of data science. By seeking out these types of challenging projects, AVAIL is formulating practical technology solutions for private business and government clients.

In the new FHWA project, AVAIL’s lead programmer, Alex Muro, will work with UAlbany computer science graduate students to create new open source transportation planning tools from WIM data, which Lawson calls “an amazing, yet untapped resource.”

Other recent AVAIL projects have included creating open-source demand forecasting for New Jersey Transit bus ridership, a cloud-based decision-support system for a statewide network of automated weather stations, and a set of interactive maps to increase participation in the establishment of new community gardens in Glasgow, Scotland.

The 20-year-old Transportation Pooled Fund Program is a popular means for State DOTs, commercial entities, and FHWA program offices to combine resources and achieve common research goals. Pooling resources reduces marginal costs, and gets the most out of taxpayer dollars. (UAlbany NewsCenter)
**PHYSICS**

Ernst, Jesse  
Experimental Particle Physics Research at SUNY Albany  
US DEPARTMENT OF ENERGY  
$180,000

Supplemental Funding: New Ideas for the ATLAS Experiment  
US DEPARTMENT OF ENERGY  
$50,000

Goyal, Philip  
An Information-Theoretic Approach to Identical Particles in Quantum Theory  
FOUNDBATIONAL QUESTIONS INSTITUTE  
$18,256

Lunin, Oleg  
Black Holes and Gauge/Gravity Duality  
NATIONAL SCIENCE FOUNDATION  
$79,994

**PSYCHOLOGY**

Christodulu, Kristin  
Albany Regional Center for Autism Spectrum Disorders  
Center for Autism and Related Disabilities  
NYS EDUCATION DEPARTMENT  
$989,960

Albany Regional Center for Autism  
Center for Autism and Related Disabilities  
NYS EDUCATION DEPARTMENT  
$629,000

CARD Workshops Misc Support  
Center for Autism and Related Disabilities  
MULTIPLE SPONSORS  
$45,667

Center for Autism & Related Disabilities (CARD) Conferences  
Center for Autism and Related Disabilities  
MULTIPLE SPONSORS  
$55,916

Education for Parents of Children Recently Diagnosed with Autism- Year 4  
Center for Autism and Related Disabilities  
NYS OFFICE FOR PEOPLE WITH DEVELOPMENTAL DISABILITIES  
$54,310

Multidisciplinary Behavioral Support Program for At-Risk Families of Children with ASD's - Year 3  
Center for Autism and Related Disabilities  
NYS OFFICE FOR PEOPLE WITH DEVELOPMENTAL DISABILITIES  
$65,144

NYS Regional Centers for Autism Spectrum Disorders  
Center for Autism and Related Disabilities  
NYS EDUCATION DEPARTMENT  
$250,000

Review of Literature for the Clinical Practice Guidelines on Autism/Pervasive Developmental Disorders  
Center for Autism and Related Disabilities  
NYS DEPARTMENT OF HEALTH  
$8,859

Statewide Initiative Designed to Increase Capacity of School Teams to Support Students with Autism Spectrum Disorders  
Center for Autism and Related Disabilities  
US DEPARTMENT OF EDUCATION  
$500,000

McNay, Ewan  
Evaluation of Amyloid Gammabodies as Therapeutic Agents Against Amyloid And in Alzheimer's  
ALBANY MEDICAL COLLEGE  
$56,070

Recurrent Hypoglycemia and Cognition  
AMERICAN DIABETES ASSOCIATION  
$103,500

Poulos, Andrew  
Immediate and Long-Term Impact of Early Life Stress  
NATIONAL INSTITUTES OF HEALTH  
$54,861

Wagner, Christine  
Synthetic Progestin Exposure & Mesocortical Dopamine System Development  
NATIONAL INSTITUTES OF HEALTH  
$187,529

Williams, Kevin  
Research Assistants for Chequed.com Project  
CHEQUED, INC  
$45,264

Wulfert, Edelgard  
Gambling Addiction: Treatment Mediators and Moderators  
NATIONAL INSTITUTE OF MENTAL HEALTH  
$290,830

**SOCIOLOGY**

Deane, Glenn  
3rd Grade Reading and High School Graduation: Cascading Effects that Support or Undermine Success  
ANNIE E CASEY FOUNDATION  
$60,482

South, Scott  
Leaving and Returning Home in the 21st Century  
NATIONAL INSTITUTES OF HEALTH  
$72,760

Strully, Kate  
Social Contexts, Sexual Networks, and Racial-Ethnic Disparities in STDs  
NATIONAL INSTITUTES OF HEALTH  
$59,343

Yang, Tse-Chuan  
TWC SBES: MEDIUM: Utility for Private Data Sharing in Social Science  
NATIONAL SCIENCE FOUNDATION  
$189,299