It all starts here.

Research, Scholarship and Creative Activity in the College of Arts and Sciences

2016-2017
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It All Starts Here
Research, Scholarship, and Creative Activity
in the
College of Arts and Sciences
2016-2017

EDITOR
Jay Oddi

COVER DESIGN
Meaghan Mulligan
The freedom to follow avenues of inquiry wherever they may lead is what unites the diverse faculty of the College of Arts and Sciences. Sometimes those roads lead to productive partnerships with government, industry, business, and the non-profit sector on projects with immediate application. Yet, many of the research, scholarship, and creative endeavors that emanate from the College, although undertaken to reach specific destinations, are embarked upon with only an incomplete map of the terrain. In fact, much of the time we are forging the very paths we travel down. Our hope – indeed, the promise of the liberal arts intellectual enterprise – is that the trails we cut individually will converge with others at some new perspective, device, aesthetic, or discovery that informs society, improves lives, and inspires the next generation to build on the work that came before.

Each of the publications, exhibitions, projects, and performances in this compendium represents a step down one of those pathways. I am immensely proud of the progress we in the College have made this past year. Congratulations and thanks to all those who contributed to our shared success.

Edelgard Wulfert
Dean of the College of Arts and Sciences
Professor of Psychology
Collins Fellow
Max Lifchitz’s 30-Year Home Base for Creativity

Adapted from the Newscenter | ALBANY, N.Y. (Feb. 24, 2017) — Score one big victory for the powers of collegiality.

Pianist/composer/teacher/impresario Max Lifchitz recalls a calm and easy feeling upon first joining the Department of Music faculty in the fall of 1986. “I felt no trepidation at my new university,” he said. “I had witnessed much back-biting and competitiveness in the music faculties at several other universities, but my colleagues here were instantly friendly and supportive — and that remains true today.”

Lifchitz is an artist whose concert schedule never flags year by year (he plays in or conducts about 10 to 12) and whose teaching load remains full. He released his 70th album in April. Sixty-four of these have been issued by North/South Consonance, a non-profit organization based in New York City that he founded in 1980 and continues to direct. Devoted to music of the Americas, its many endeavors include an annual chamber music concert series in New York City, and it has received private support from such groups as the Aaron Copland Fund and public entities such as the New York State Council for the Arts and the New York City Department of Cultural Affairs.

His individual work and studies have been funded by many sources, including the American Society of Composers, Authors and Publishers, Ford and Guggenheim foundations, the Individual Artists program of NYSCA, and the National Endowment for the Arts. He received an Excellence in Research Award from UAlbany in 2005. His concert appearances throughout Latin America have been underwritten by the Fund for US Artists at International Festivals.

“I felt I found a niche in bringing to light Latin American composers and Latin American music,” he said. “I didn’t feel the need to be another pianist performing the standard repertoire of Tchaikovsky, Brahms, etc.” Through his critically acclaimed playing, Lifchitz placed an enhanced spotlight on such masters as Carlos Chavez, Heitor Villa-Lobos and others.

“For many years the music of Latin America was overlooked by the mainstream classical music world. I’m happy to say that’s changing, due probably to demographic changes and globalization.”

Among his newer compositions is “Divine Rose,” a piece inspired by a poem written by a 17th century nun, Sor Juana Ines de la Cruz. He recently heard it performed in Chile by the Ensemble Bartok as a guest of Chile’s National University. Monday’s program includes Yellow Ribbons No. 51 for violin, which was commissioned and premiered at the 2016 Bar Harbor Music Festival.

The number “51” on the piece represents the 51st composition of a Yellow Ribbons series he began in 1980, with one work dedicated to each of the 52 Americans held in the Iran Hostage Crisis. This particular piece was inspired by last June’s Orlando nightclub shooting.

Events and notable occasions have stirred him productively in his teaching, as well. In 1992, he was inspired by the Columbus Centennial to create a general education course on Latin American music, which he has since put online. “I’ve always enjoyed the gen-ed courses just as much as my composition courses with music majors,” he said.

The graduate of Harvard University and The Juilliard School, who spent 10 years teaching at Columbia University before coming to UAlbany, said he’s aware that “many of my colleagues have now retired or moved to Florida. But I take care not to force my body beyond its limits. I practice an hour per day to keep the muscles loose. I see myself as a man who is happy to teach full-time while also having the flexibility to perform and compose.

“UAlbany has made that possible. It’s been a great privilege to have had a steady gig.”
ARTS & HUMANITIES

ART AND ART HISTORY

Rakhee Balaram


Amy R. Bloch


JoAnne Carson


Sarah R. Cohen


Rachel Dressler


Rob S. Edelman


Phyllis J. Galembo


Danny S. Goodwin


William M. Jaeger

Marionette Plays from Northern China

Fan Pen Li Chen
ASSOCIATE PROFESSOR
DEPARTMENT OF EAST ASIAN STUDIES

SUNY Press, 2017

English-language translations of traditional plays from the marionette puppet theater of northern China.

Marionette puppet theater has a rich and ancient history in China, extending back to the Han dynasty and reaching its heyday in the Qing dynasty. While this art form is nearly extinct in northern China today, a handful of troupes in Heyang County in Shaanxi Province, which claims to be the birthplace of marionette theater, continue to perform skits and scenes from Heyang’s earlier, broader marionette theater repertoire. In this book, Fan Pen Li Chen has collected and translated rare transcriptions of some of the most popular of these plays. Her insightful translations include a rich variety of genres and highlight memorable characters that range from manipulative aristocrats, poor Confucian scholars, and a woman warrior to Baldy Guo, the iconic clown of puppet theater. As the only work in English about the puppet theater of northern China, these translations provide valuable information about the history, religion, social roles, and popular culture of that region. Detailed introductions and annotations for each play, as well as an extensive bibliography, are also included.

Cover and synopsis from publisher.


Rebecca A. Tolley

Jason K. Van Staveren


Anthony DeBlasi

Charles M. Hartman


Fan Pen L. Chen


ENGLISH

Thomas A. Bass


Jeffrey Berman

Tamika L. Carey

Teresa Ebert


Glyne A. Griffith

Michael K. Hill


Eric C. Keenaghan


Teresa L. Ebert
PROFESSOR
DEPARTMENT OF ENGLISH

Class in Culture
With Mas’ud Zavarzadeh
Routledge, 2016

Class in Culture demonstrates the power of moving beyond cultural politics to a deeper class critique of contemporary life. Making a persuasive case for class as the material logic of culture, the book is written in a double register of short critiques of life practices—from food and education to race, stem-cell research, and abortion—as well as sustained critiques of such theoretical discourses as ideology, consumption, globalization, and 9/11. Surpassing the orthodoxies of cultural studies, Class in Culture makes surprising connections among seemingly unrelated cultural events and practices and offers a groundbreaking and complex understanding of the contemporary world.

Cover and synopsis from publisher.


Keenaghan, E. (2016). Review of After Translation: The Transfer and Circulation of Modern Poetics Across...
The Atlantic, by Ignacio Infante;

Translation Studies, 9(3), 340-345.

Kir A. Kuiken


Vesna Kuiken


Michael C. Leong


James Lilley

of Style in "Benito Cereno." In Branka Arsic and K. L. Evans (Eds.), Melville’s Philosophies (pp. 201-218). New York: Bloomsbury Press.

Ineke Murakami


Wendy R. Roberts

Helene Scheck

Charles Shepherdson

Derik J. Smith

Paul Stasi


Lynne Tillman

Lynne Tillman

Semiotext(e), 2017

Lynne Tillman’s groundbreaking fiction/essays on culture and places, monuments, artworks, iconic TV shows, and received ideas, written in the third person to record the subtle, ironic, and wry observations of the playful but stern “Madame Realism.”

Through her use of a fictional character, Tillman devised a new genre of writing that melded fiction and theory, sensation, and critical thought, disseminating her third-person art writer’s observations in such magazines as Art in America and in a variety of art exhibition catalogs and artist books. Two decades after the original publication of these texts, her approach to investigation through embodied thought has been wholly absorbed by a new generation of artists and writers. Provocative and wholly pleasurable, Tillman’s stories/essays dissect the mundane with alarming precision.

As Lydia Davis wrote of her work, “Our assumptions shift. The every day becomes strange, paradox is embraced, and the unexpected is always around the corner.”

This new collection also includes the complete stories of Tillman’s other persona, the quixotic author Paige Turner (whose investigation of the language of love overshoots any actual experience of it), and additional stories and essays that address figures such as the “Translation Artist” and Cindy Sherman.

Cover and synopsis from publisher.

Sheila Curran Bernard


Richard S. Fogarty
Fogarty, R. S. (2016). ‘We did not speak a common language’: African soldiers and communication in the French Army, 1914-18. In Julian Walker and Christophe Declercq (Eds.), Languages and the First
Richard F. Hamm


David P. Hochfelder

Hochfelder, D. P. (2016, February 16). Examining the forces and maps that redlined the city of Albany. All Over Albany, epub.


Ryan M. Irwin


Nadieszda Kizenko


Dmitri Korobeinikov


Ileana C. Lenart


Patrick J. Nold


Chris L. Pastore


John F. Schwallar

Schwallar, J. F. (2017). El cabildo catedral de Mexico en el siglo XVI. In Leticia Pérez Puente and José Gabino Castilo Flores (Eds.), Poder y privilegio: cabildos eclesiasticos en Nueva España, siglos XVI a XIX. Mexico, DF: Universidad Nacional Autónoma de Mexico.

**Kendra Smith-Howard**


**Laura Wittern-Keller**


**LANGUAGES, LITERATURES, AND CULTURES**

**Maria Alejandra Aguilar Dornelles**


**Denise M. Osborne**


**Olimpia A. Pelosi**


**Lotfi Sayahi**


**Timothy D. Sergay**


**Carmen A. Serrano**


**Megan Solon**


**Mary Beth Winn**


**MUSIC AND THEATRE**

**Richard Albagli**


Kevin Champagne

Duncan Cumming


Hillary Cumming


Bob Gluck


David Hosley

Chad Larabee


Max Lifchitz


Lifchitz, M. (2016-2017). *Various performances*. Composer. Performances of Lifchitz’s work performed by artists at venues around the world. Seattle, WA; Evansville and Muncie, IN; Lawrence, TX; Baton Rouge, LA; Bar Harbor, ME; Great Barrington, MA; New York, NY; Camerino, Italy; Santiago, Chile; Katowice and Bytom, Poland; and Tokyo, Japan.


Andi Lyons


Nancy Newman


Christopher D. Neubert


Richard R. Porterfield


Kim Stauffer


Victoria von Arx


Schumann. University at Albany (SUNY), Albany, NY.


**Kathryn A. Walat**

Walat, K. (2016). *Small Town Values*. Playwright. The Kilroys 2016 Honorable Mention; one of the top 15% most recommended new plays by women in the U.S. Presented at the Eugene O’Neill Theatre Center’s National Playwrights Conference. Waterford, CT.


**Marcus P. Adams**


**Rachel Cohon**


**P. D. Magnus**


**Jonathan Mandle**


**Monika W. Piotrowska**


**Nathan M. Powers**


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Marcus Adams  
**ASSISTANT PROFESSOR**  
**DEPARTMENT OF PHILOSOPHY**  

**Eppur si muove: Doing History and Philosophy of Science with Peter Machamer**  
Edited with Zvi Biener, Uljana Feest & Jacqueline A. Sullivan  
Springer International Publishing, 2017

This volume is a collection of original essays focusing on a wide range of topics in the History and Philosophy of Science. It is a festschrift for Peter Machamer, which includes contributions from scholars who, at one time or another, were his students. The essays bring together analyses of issues and debates spanning from early modern science and philosophy through the 21st century. Machamer’s influence is reflected in the volume’s broad range of topics. These include: underdetermination, scientific practice, scientific models, mechanistic explanation in contemporary and historical science, values in science, the relationship between philosophy and psychology, experimentation, supervenience and reductionism.

*Cover art and synopsis from publisher.*
Social & Behavioral Sciences

AFRICANA STUDIES

Michelle Harris


Leonard A. Slade, Jr.


ANTHROPOLOGY

Elise L. Andaya


Louise M. Burkhart


Mia Gallo


Michelle Harris

PROFESSOR
DEPARTMENT OF AFRICANA STUDIES

Stories from the Front of the Room: How Higher Education Faculty of Color Overcome Challenges and Thrive in the Academy

Edited with Sherrill L. Sellers, Orly Clerge, and Frederick W. Gooding, Jr.
Rowman and Littlefield, 2017

Research demonstrates that faculty of color in historically white institutions experience higher levels of discrimination, cultural taxation, and emotional labor than their white colleagues. Despite efforts to recruit minority faculty, all of these factors undermine their scholarship, pedagogy, social experiences, promotion and retention. This edited volume builds upon the existing research on faculty of color, however, it also departs from the existing literature and unravels the socio-emotional experiences of being in front of the classroom, in labs, and in the Ivory Tower for faculty who are in multiple racialized social locations. In an effort to circulate the experiences of faculty of color more widely to academic and non-academic audiences, this edited volume replaces conventional scholarly technical papers with unconventionally accessible letters. *Stories from the Front of the Room* focuses on the boundaries which faculty of color encounter in everyday experiences on campus and presents a more complete picture of life in the academy - one that documents how faculty of color are tested, but also how they can not only overcome, but thrive in their respective educational institutions.

Cover and synopsis from publisher.

Social & Behavioral Sciences | 15
Painted Words: Nahua Catholicism, Politics, and Memory in the Atzaqualco Pictorial Catechism

With Elizabeth Boone Hill and David David Tavárez
Harvard University Press, 2017

Painted Words presents a facsimile, decipherment, and analysis of a seventeenth-century pictographic catechism from colonial Mexico, preserved as Fonds Mexicain 399 at the Bibliothèque Nationale de France. Works in this genre present the Catholic catechism in pictures that were read sign by sign as aids to memorization and oral performance. They have long been understood as a product of the experimental techniques of early evangelization, but this study shows that they are better understood as indigenous expressions of devotional knowledge.

In addition to inventive pictography to recount the catechism, this manuscript features Nahua texts that focus on don Pedro Moteuzoma, son of the Mexica ruler Moteuczoma the Younger, and his home, San Sebastián Atzaqualco. Other glosses identify figures drawn within the manuscript as Nahua and Spanish historical personages, as if the catechism had been repurposed as a dynastic record. The end of the document displays a series of Nahua and Spanish heraldic devices.

These combined pictorial and alphabetic expressions form a spectacular example of how colonial pictographers created innovative text genres, through which they reimagined pre-Columbian writing and early evangelization - and ultimately articulated newly emerging assertions of indigenous identity and memorialized native history.

Cover art and synopsis from publisher.


Adam D. Gordon


Julia Jennings


Marilyn A. Masson


Cara J. Ocobock


Veronica Perez Rodriguez

Formative urban center in the Mixteca Alta: a bioarchaeological analysis of human remains from Cerro Jazmin. *Journal of Archaeological Science: Reports.*

**Sean M. Rafferty**


**Robert M. Rosenswig**


**Lawrence M. Schell**


**Amanda Spriggs**


**Chris B. Wolff**


**COMMUNICATION**

**Rosemary C. Armao**


**Nicolas Bencherki**


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**Robert Rosenswig**

**ASSOCIATE PROFESSOR**

**DEPARTMENT OF ANTHROPOLOGY**

**Modes of Production and Archaeology**

Edited with Jerimy J. Cunningham
University Press of Florida, 2017

Contributors to this volume explain how archaeologists can use Karl Marx and Frederick Engels’ mode of production concept to study long-term patterns in human society. Mode of production analysis describes how labor is organized to create surplus which is then used for political purposes. This type of analysis allows archaeologists to compare and contrast peoples across distant continents and eras, from hunter-gatherer groups to early agriculturalists to nation-states. Presenting a range of different perspectives from researchers working in a wide variety of societies and time periods, this volume clearly demonstrates why historical materialism matters to the field of archaeology.

Benchekri, N. How things make things do things with words, or how to pay attention to what things have to say. Communication Research and Practice, 2(3), 272-289.


Annis G. Golden

Teresa M. Harrison

Archana Krishnan


Matthew D. Matsaganis


Alyssa C. Morey

Nancy L. Roberts


Masahiro Yamamoto


Alan Zemel

ECONOMICS

Pinka Chatterji


Ceren Ertan

Chun-Yu Ho

Laurence J. Kranich

Kajal Lahiri


Yue Li

Zhongwen Liang

Adrian Masters


Michael J. Sattinger

Baris K. Yoruk

GEOGRAPHY AND PLANNING
Carlos Balsas


Balsas, C. (2016). Mediterranean Saltscapes: The need to enhance fragile ecological and cultural


**Alexander B. Buyantuev**


**Melissa A. Currie**


**Youqin Huang**


**Shiguo Jiang**


**Andrei Lapenas**


**Catherine Lawson**


Gabriel B. Hetland


Katherine Paarlberg-Kvam

PSYCHOLOGY
Jeanette Altarriba


Drew A. Anderson


James F. Boswell
Extraordinary Devotion

Jeanette Altarriba Named Collins Fellow

Adapted from the NewsCenter | ALBANY, N.Y. (April 10, 2017) — Jeanette Altarriba, professor of psychology, and vice provost and dean for undergraduate education was named a Collins Fellow in 2016-2017.

The award, now in its 33rd year, recognizes teaching faculty who have shown extraordinary devotion to the University over a sustained period of time. Named after Evan Revere Collins, president from 1949-1969, it is bestowed on “exemplars of the highest levels of institutional commitment and service.”

Altarriba has been with UAlbany since 1992, affiliated with the departments of Psychology and Latin American, Caribbean and U.S. Latino Studies, and Communication. She has been director of the Cognition and Language Laboratory, and directs research into bilingual language processing and second language acquisition. Her own research, published nationally and internationally, focuses on bilingual language, memory and emotion.

Over the years she has chaired the departments of Psychology and Communication, and has been associate dean for academic affairs in the College of Arts and Sciences. As vice provost and dean for undergraduate education, Altarriba oversees the Office of Undergraduate Education, the Honors College, the Student Engagement Initiative, the Advisement Services Center, the General Education Program, the Center for Achievement, Retention, and Student Success, and the Writing and Critical Inquiry Program.

Her nominating letters took note of her many roles at the University over the years, as well as her expertise as a teacher, advisor and mentor. “Students routinely seek her out because she is engaging in the classroom and a wonderful research advisor and mentor in the laboratory,” one letter said, noting that this skill has led to Altarriba’s doctoral students becoming “superbly trained professionals who have turned out to be solid teachers and scholars in their own right.”

DC: American Psychological Association Press.


Mitchell Earleywine


Laurie B. Feldman


Ronald S. Friedman

Cheryl A. Frye


Brendan J. Gaesser

Elana B. Gordis

Leslie F. Halpern

Julia M. Hormes


Ewan C. McNay

Mark Muraven


James H. Neely


Tram T. Neill III


Andrew Poulos


Jason G. Randall


Angie Y. Chung
ASSOCIATE PROFESSOR
DEPARTMENT OF SOCIOLOGY

Saving Face: The Emotional Costs of the Asian Immigrant Family Myth
Rutgers University Press, 2016

Tiger Mom. Asian patriarchy. Model minority children. Generation gap. The many images used to describe the prototypical Asian family have given rise to two versions of the Asian immigrant family myth. The first celebrates Asian families for upholding the traditional heteronormative ideal of the "normal (white) American family" based on a hard-working male breadwinner and a devoted wife and mother who raises obedient children. The other demonizes Asian families around these very same cultural values by highlighting the dangers of excessive parenting, oppressive hierarchies, and emotionless pragmatism in Asian cultures.

*Saving Face* cuts through these myths, offering a more nuanced portrait of Asian immigrant families in a changing world as recalled by the people who lived them first-hand: the grown children of Chinese and Korean immigrants. Drawing on extensive interviews, sociologist Angie Y. Chung examines how these second-generation children negotiate the complex and conflicted feelings they have toward their family responsibilities and upbringing. Although they know little about their parents' lives, she reveals how Korean and Chinese Americans assemble fragments of their childhood memories, kinship narratives, and racial myths to make sense of their family experiences. However, Chung also finds that these adaptive strategies come at a considerable social and psychological cost and do less to reconcile the social stresses that minority immigrant families endure today.

*Saving Face* not only gives readers a new appreciation for the often painful generation gap between immigrants and their children, it also reveals the love, empathy, and communication strategies families use to help bridge those rifts.

Cover and synopsis from publisher.

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Sylvia G. Roch


Woehr, D. J., Roch, S. G. (2016). Of babies and bathwater: Don’t throw the measure out with the application. *Industrial and Organizational Psychology: Perspectives on Science and Practice, 9*(2), 357-361.

Heather Sheridan


Kevin J. Williams


Edelgard Wulfert


Damian Zuloaga

Impey, S., Jopson, T., Pelz, C., Tafessu, A., Fareh, F., Zuloaga,
The past fifty years are conventionally understood to have witnessed an uninterrupted expansion of sexual rights and liberties in the United States. This state-of-the-art collection tells a different story: while progress has been made in marriage equality, reproductive rights, access to birth control, and other areas, government and civil society are waging a war on stigmatized sex by means of law, surveillance, and social control. The contributors document the history and operation of sex offender registries and the criminalization of HIV, as well as highly punitive measures against sex work that do more to harm women than to combat human trafficking. They reveal that sex crimes are punished more harshly than other crimes, while new legal and administrative regulations drastically restrict who is permitted to have sex. By examining how the ever-intensifying war on sex affects both privileged and marginalized communities, the essays collected here show why sexual liberation is indispensable to social justice and human rights.

Cover and synopsis from publisher.
Zai Liang & Steven F. Messner

PROFESSORS
DEPARTMENT OF SOCIOLOGY

Youquan Huang

ASSOCIATE PROFESSOR
DEPARTMENT OF GEOGRAPHY AND PLANNING

Confronting the Challenges of Urbanization in China: Insights from Social Science Perspectives

Edited with Cheng Chen
Routledge, 2016

Since the late 1970s, China has experienced an unprecedented pace of urbanization. In 1978, only 17.8% of the population resided in urban areas, but by 2013 the level of urbanization had reached 53.8%. During the same period, China also enjoyed spectacular economic growth. China had become the second largest economy in the world by 2012, just behind the United States. Despite China’s highly acclaimed achievements in urbanization and its economic miracle, urban China confronts a set of significant challenges.

This book provides theoretically informed and empirically rich analyses of some of the key challenges facing China’s urbanization. The first part deals with new patterns of urbanization, focusing on comprehensive measures and environmental dimensions of urbanization. The second part of the book focuses on several aspects related to migrants in cities: migrant entrepreneurship, return migration, and local people’s attitudes toward migrants. The final section examines two key issues important for migrants, urban local residents, and policy-makers that have become quite contentious in China today: housing and urban health care.

This collection presents original, cutting-edge research on some of the most pressing challenges confronting contemporary urban China, conducted by researchers from multiple social science disciplines. It will appeal to scholars and advanced students of urban studies and China studies, as well as those in sociology, anthropology, geography, and political science.

Cover and synopsis from publisher.
Glenna D. Spitze

Stacy M. Torres


Katherine Trent

Russell A. Ward

Tse-Chuan Yang


WOMEN’S, GENDER, AND SEXUALITY STUDIES

Janell C. Hobson


Barbara Sutton


ATMOSPHERIC AND ENVIRONMENTAL SCIENCES

Lance F. Bosart


Kristen L. Corbosiero


Aiguo Dai


Oliver Ellison Timm


Robert G. Fovell


Daniel Keyser


Andrea A. L. Lang


Jiping Liu


Justin R. Minder


Christopher Thornicroft Honored by American Meteorological Society

Adapted from the NewsCenter | ALBANY, N.Y. (October 6, 2016) -- Department of Atmospheric and Environmental Sciences (DAES) chairperson and Professor Christopher D. Thornicroft has been named a 2017 Fellow of the American Meteorological Society (AMS).

AMS states: “Those eligible for election to Fellow shall have made outstanding contributions to the atmospheric or related oceanic or hydrologic sciences or their applications during a substantial period of years.” New Fellows elected each year by the AMS Council at its fall meeting come from names submitted by the Fellows Committee of not more than two-tenths of 1 percent of all AMS members.

Thornicroft has been on the faculty of the Department of Atmospheric and Environmental Sciences since 2001, and previously served as university fellow and lecturer at the University of Reading (UK), where he received his doctorate in meteorology in 1988. Thornicroft has chaired DAES since 2008, and is the active co-director of the NY State Mesonet, a $30 million project that will deploy 126 automatic weather stations throughout the state, constituting the nation’s most advanced early warning weather detection system.

His major research focus is on improving understanding of the processes that determine the nature and variability of the West African monsoon, including how this impacts Atlantic tropical cyclone activity. He has also had leadership roles in several field campaigns in the West African and Tropical Atlantic regions.

In recent years, Thornicroft has lectured statewide on climate change and its impact and, with the Rockefeller Institute of Government, hosted forums to educate New York State emergency managers and the public about climate change and extreme weather.

UPDATE: Shortly before press time, AMS announced that Professor Aiguo Dai received was named a 2018 Fellow. Dr. Dai will be honored in January at the AMS annual meeting.

Brian E. J. Rose


Paul E. Roundy


Brian H. Tang


John Molinari


**Chris D. Thorncroft**


**Ryan D. Torn**

**BIOLOGICAL SCIENCES**

**Paul F. Agris**


**Marlene Belfort**


**Thomas B. Caraco**


**Richard P. Cunningham**


**Gabrielle Fuchs**


**Melinda Larsen**


Gregory Lnenicka

Morgan A. Sammons

Annalisa Scimemi


Ben G. Szaro

Wendy C. Turner


CHEMISTRY
Matthew Barry


Eric Block


Block, E. (2017). Fifty years of smelling sulfur: From the chemistry of garlic to the molecular basis for olfaction. Phosphorus, Sulfur and Related Elements, 192, 141-144.


Justin Bueno


Alan A. Chen


**Christopher DeMott**


**Evgeny Dikarev**


**Gerd-Uwe Flechsig**


**Jan Halámková**


**Igor K. Lednev**


Rabi A. Musah


Gregory McLaughlin

Ajay Pande

Jayanti Pande

Marina A. Petrukhina


Max Royzen


Mejia, j., Khan, I., Seebald, L. M. In vivo bioorthogonal chemistry enables local hydrogel and systemic pro-drug to treat soft tissue sarcoma. *ACS Central Science, 2*, 475-482.

Alexander Shekhtman


Jia Sheng


Paul J. Toscano


Jun Wang


Zhang Wang


Zheng Wei


Mehmet V. Yigit


Science & Mathematics | 37
**Combinatorial representation theory of Lie algebras. Richard Stanley's work and the way it was continued. In Patricia Hersh, Thomas Lam, Pavlo Pylyavskyy, Victor Reiner (Eds.), The Mathematical Legacy of Richard Stanley (pp. 263-277). Providence, RI: American Mathematical Society.**


**Marco Varisco**


Ting Wang


Yiming Ying


**Marco Varisco**


Ting Wang


**Yiming Ying**


Kehe Zhu


Vivek Jain

Alexander Khmaladze


Kevin Knuth


Carolyn A. MacDonald

DEPARTMENT OF PHYSICS

An Introduction to X-Ray Physics, Optics, and Applications

Princeton University Press, 2017

In this book, Carolyn A. MacDonald provides a comprehensive introduction to the physics of a wide range of x-ray applications, optics, and analysis tools. Theory is applied to practical considerations of optics and applications ranging from astronomy to medical imaging and materials analysis.

Emphasizing common physical concepts that underpin diverse phenomena and applications of x-ray physics, the book opens with a look at nuclear medicine, motivating further investigations into scattering, detection, and noise statistics. The second section explores topics in x-ray generation, including characteristic emission, x-ray fluorescence analysis, bremsstrahlung emission, and synchrotron and laser sources. The third section details the main forms of interaction, including the physics of photoelectric absorption, coherent and Compton scattering, diffraction, and refractive, reflective, and diffractive optics. Applications in this section include x-ray spectroscopy, crystallography, and dose and contrast in radiography. A bibliography is included at the end of every chapter, and solutions to chapter problems are provided in the appendix.

Based on a course for advanced undergraduates and graduate students in physics and related sciences and also intended for researchers, An Introduction to X-Ray Physics, Optics, and Applications offers a thorough survey of the physics of x-ray generation and of interaction with materials.

Cover and synopsis from publisher.


William A. Lanford


Oleg Lunin


**Daniel G. Robbins**


**Anna Sharikova**


**Sean N. Starr-Baier**


**Matthew Szydagis**


Igor Lednev’s Forensic Tool Can Determine if Saliva is from Male or Female

Portable scanners to analyze saliva, other body fluids, may soon be available to law enforcement

Adapted from the NewsCenter | ALBANY, N.Y. (January 17, 2017) – Using laser technology to catch criminals is no longer futuristic in the lab of Igor Lednev.

Lednev, a chemistry professor at the University at Albany, has released findings on a new method for determining a culprit’s sex with up to 92 percent accuracy based on saliva left behind at a crime scene.

The method relies on Raman spectroscopy, a technology that measures the intensity of scattered light by shining lasers on a sample. Since no two compounds produce the same Raman spectrum, the measurements are unique, almost like a fingerprint. The process is also nondestructive, allowing for the preservation of the material for DNA analysis.

Lednev and his research team analyzed 60 saliva samples in their lab – 30 male and 30 female – using a desktop Raman spectrometer. The team searched for trends and differentiations in sample measurements to correctly identify the sex of each donor. Their results were published in Analytical Chemistry.

“This was a proof-of-concept study and our findings have successfully proven the usefulness of Raman spectroscopy in determining sex through saliva,” said Lednev, also a member of The RNA Institute. “We now hope to apply this method using a portable instrument and more realistic samples to simulate crime scene evidence. This could include using traces of saliva deposited onto common substrates.”

Raman spectroscopy is an analytical chemistry technique that has been around for decades. Recent advances have made the technology’s measurements more accurate and commercially viable. Portable instruments (about the size of a Nintendo Game Boy) are already available for purchase.

Lednev’s saliva findings are the first of a multidimensional Raman spectroscopy project. His team, led by Ph.D. chemistry candidate Claire Muro, also is analyzing laser measurements from four other body fluids including peripheral blood, semen, sweat and vaginal fluid.

Ultimately, the researchers envision a portable “point-and-shoot” Raman spectroscopy scanner that can be used to identify the type of body fluid, determine if it’s human or animal in origin, report the estimated time of deposition, and predict key suspect characteristics such as sex, race and age.

Lednev believes these types of handheld Raman tools could be used by law enforcement within three to five years. His team is working with the New York State Police Crime laboratory to make the technology practical for investigators.

“After finding what appears to be a biological stain at a crime scene, a forensic investigator would simply need to scan the evidence to collect the necessary data. There’s no interpretation of the spectra needed. Once the laser hits the sample, they’ll get instantaneous answers through automatic software,” Lednev said.

Lednev’s laboratory has been funded by the National Institute of Justice (NIJ) for eight consecutive years for a total of about $2.2 million. He’s also received a separate NIJ grant to analyze gunshot residue through Raman spectroscopy, and investment from SUNY’s Technology Accelerator Fund. His team has published over 50 articles in peer-reviewed journals over the past decade.
ANTHROPOLOGY

Rebecca Mendelsohn
Graduate Research Fellowship Award
(Kevin Williams, PI)
National Science Foundation
12/1/2015 - 6/30/2021
$46,000

Sean M. Rafferty
Northeast Anthropology Journal
Multiple Sponsors
9/15/2004 - 9/15/2017
$8,090

Lawrence M. Schell
Acculturative stress among immigrant mothers and its influence on infant stress response
National Science Foundation
9/1/2017 - 8/31/2018
$22,880

Program Income: The Endowment for Community-Based Health Disparities Research and Training
(Darrell Wheeler, PI)
Multiple Sponsors
4/1/2016 - 3/31/2018
$95,800

The Endowment for Community Based Health Disparities Research and Training
(Darrell Wheeler, PI)
National Institutes of Health
4/1/2016 - 3/31/2018
$2,000,000

ATMOSPHERIC AND ENVIRONMENTAL SCIENCES

Lance F. Bosart
Climatological, Composite, and Case Study Analyses Linking Rossby Wave Breaking to Potential Vorticity Streamer and Cutoff Cyclone Formation in the Subtropical North Atlantic Basin
National Science Foundation
6/15/2017 - 5/31/2020
$134,278

Improving Prediction of Large-Scale Regime Transitions
National Oceanic and Atmospheric Administration | University of Wisconsin Milwaukee
9/1/2016 - 8/31/2018
$72,439

Kristen L. Corbosiero
Development of Improved Diagnostics, Numerical Models, Situational Awareness of High-Impact Cyclones and Convective Weather Events
National Oceanic and Atmospheric Administration
5/1/2016 - 4/30/2019
$150,000

Investigating Tropical Cyclone Intensity Change Due to Trough-Induced Vertical Wind Shear
NASA Goddard Space Flight Center
2/24/2017 - 2/23/2020
$99,997

Kinematic and Thermodynamic Analyses of Tropical Cyclone Intensity Changes Signaled by Outer Rainband Lightning Activity during NASA’s GRIP and HS3 Missions
NASA Goddard Space Flight Center

Robert G. Fovell
Development of a utility outage prediction tool for Central Hudson Gas & Electric
Central Hudson Gas and Electric Company
10/1/2016 - 9/30/2018
$265,309

Aiguo Dai
Collaborative Research to Narrow Uncertainties in Precipitation and the Hydrological Cycle in Climate Models
US Department of Energy
8/15/2014 - 8/14/2017
$109,438

Dirunal Metrics for Evaluating GFDL and Other Climate Models
National Oceanic and Atmospheric Administration
8/1/2015 - 7/31/2018
$143,192

Craig Ferguson
The Role of Soil Moisture in Weather Predictability Over the U.S. Great Plains
NASA Goddard Space Flight Center
8/1/2016 - 7/31/2019
$18,235

Understanding the Role of the Low-Level Jet in Land-Atmosphere Interactions and Drought over the Southern Great Plains
National Science Foundation
4/1/2017 - 3/31/2020
$84,003

Flight Center
9/1/2015 - 8/31/2017
$45,000
Everette Joseph

Center of Excellence in Atmospheric and Environmental Prediction and Innovation

Empire State Development Corporation
4/1/2015 - 3/31/2017
$125,000

Department of Commerce NOAA
Scientific and Technical Support
National Oceanic and Atmospheric Administration | Global Science & Technology, Inc.
9/28/2015 - 1/16/2017
$10,998

PIRE: Building Extreme Weather Resiliency Through Improved Weather and Climate Prediction and Emergency Response Strategies
National Science Foundation
8/1/2015 - 8/31/2020
$271,289

Andrea Lang

A Categorical Assessment of Forecast Skill, Uncertainty and Biases in Extended-Range Ensemble Forecasts of Stratospheric Regime Changes
National Oceanic and Atmospheric Administration
7/1/2016 - 6/30/2019
$116,103

Exploring the Relationship Between Tropospheric Synoptic-Scale Events, Vertical Wave Activity Flux, and Sudden Stratospheric Warmings in NASA's MERRA-2 Dataset
NASA Goddard Space Flight Center
9/1/2016 - 8/31/2018
$75,000

John E. Molinari

Mechanisms of Intensity Change in Sheared Tropical Cyclones
National Science Foundation
3/15/2015 - 2/28/2018
$151,701

Physics and Dynamics of the Tropical Cyclone Cirrus Canopy
National Science Foundation
4/1/2017 - 3/31/2020
$192,586

Tropical Cyclone Outflow Layer Analysis using High-Resolution TCI Data
US Navy Office of Naval Research
1/1/2017 - 12/31/2018
$126,282

Paul E. Roundy

Intrasessional Extratropical Precursors to the Indian Ocean MJO Proximate to Africa
National Science Foundation
7/15/2016 - 6/30/2019
$486,419

Precursor Conditions to Onset and Breakdown of Agricultural Drought over the United States Corn Belt Region
National Oceanic and Atmospheric Administration
9/1/2014 - 8/30/2017
$75,000

Brian H. Tang

Intensity and Frequency of Severe Hailstorms
Bermuda Institute of Ocean Sciences
8/22/2016 - 8/21/2017
$52,031

Christopher D. Thornicroft

The New York State Early Warning System
Federal Emergency Management Agency | NYS Division of Homeland Security and Emergency Management Services
4/1/2014 - 3/31/2017
$8,844,208

Ryan Torn

Evaluating Methods of Parameterizing Model Error in the HWRF Ensemble Prediction System
National Oceanic and Atmospheric Administration
9/1/2016 - 8/31/2018
$328,574

The Role of Uncertainty in Divergent Outflow on Midlatitude Predictability within DOWNSTREAM
National Science Foundation
9/1/2015 - 8/31/2018
$205,923

Using NOAA Unmanned Aircraft Systems to Investigate Tropical Cyclone Track, Intensity Change, and Cirrus Canopy Structure
National Oceanic and Atmospheric Administration | University of Miami
8/1/2014 - 7/31/2017
$189,091

BIOLOGICAL SCIENCES

Paul Agris

4th Annual RNA Symposium: RNA Science and Its Applications
Regeneron Pharmaceuticals Incorporated
2/24/2017 - 2/23/2018
$11,000

Biochemical Consequences of Cdk11 Mutations That Result in Unprocessed, Nonfunctional Insulin and Type 2 Diabetes
US Department of Defense
8/1/2016 - 1/31/2018
$308,380

RNA Modification: Structure and Mechanism
National Institute of General Medical Sciences | San Diego State University
9/1/2016 - 8/31/2017
$110,000

Marlene Belfort

Intron Dynamics in Bacteria: Function, Evolution, Application
National Institute of General Medical Sciences
5/10/2016 - 3/31/2017
$161,440

Self-Splicing Inteins: Function, Evolution, Application
National Institute of General Medical Sciences
7/1/2016 - 6/30/2018
$1,159,756

Haijun Chen

Dynamic Ion Selectivity of K2P Channels and Paradoxical Depolarization
National Institutes of Health
8/1/2012 - 7/31/2017
$286,726

Gary Kleppel

Towards a Data and Technology Architecture for Smart Food Policy: Understanding the Critical Factors of Food Traceability for Small Farms (J. Ramon, Gil-Garcia, PI)
National Science Foundation
8/15/2016 - 7/31/2017
$22,783
Melinda Larsen
Engineering Functional Salivary Glands Using Micropatterned Scaffolds
National Institute of Dental & Craniofacial Research
7/1/2015 - 6/3/2017
$473,324

Integrin Intracellular Function
National Institute of General Medical Sciences | Albany Medical College
4/1/2015 - 1/31/2018
$44,670

Christopher Lennon
Post-Transitional Regulation of Recombinase Function in Intein Splicing in Response to Single Stranded DNA-Post Doc Fellowship
National Institute of General Medical Sciences
7/1/2016 - 6/30/2018
$60,990

Donald Orokos
New York Upstate Academic Year 2016-2017 Junior Science and Humanities Symposium
Academy of Applied Sciences
10/1/2016 - 9/30/2017
$15,900

Kasturi Prashanth Rangan
Transient Transcriptional Silencing in Stem Cell Differentiation in Drosophila
National Institutes of Health
8/1/2014 - 7/31/2017
$287,540

Transposon modulates Wnt signaling to control germ line stem cell differentiation in Drosophila
American Federation for Aging Research
5/1/2017 - 10/31/2017
$5,000

Annalisa Scimemi
Astrocycle remodeling during the sleep/wake cycle
National Institute of Neurological Disorders & Stroke
7/1/2017 - 6/30/2018
$72,983

Glutamate Transporter Control of Excitation and Inhibition in the Striatum
National Science Foundation
5/15/2017 - 4/30/2021
$245,000

Ben G. Szaro
Functional Analysis of Genes Implicated in Successful CNS Axon Regeneration
NYS Department of Health
1/1/2017 - 12/31/2017
$179,738

Institutional Support for Spinal Cord Injury Research Round 6
NYS Department of Health
3/1/2017 - 2/28/2018
$142,500

Intracellular Modulations of Cytokine Signaling Leading to Successful CNS Axon Regeneration in a Vertebrate Model
NYS Department of Health
3/1/2016 - 2/28/2018
$57,015

Daniel L. Wulff
Science Research in the High School Program-Teacher Workshops
Multiple Sponsors
7/16/2009 - 8/15/2017
$29,500

Support for Junior Science & Humanities Symposium (JSHS)-University in High School Program
Multiple Sponsors
2/16/2012 - 2/15/2018
$19,165

CHEMISTRY

Alan Chen
CAREER: Predicting High-Resolution RNA Tertiary Structures Using an Experimentally Calibrated Force-Field for RNA Folding
National Science Foundation
6/1/2017 - 5/31/2018
$159,440

REU Supplement to NSF CAREER Grant MCB-1651877 for undergraduate summer research
National Science Foundation
6/1/2017 - 5/31/2022
$5,000

Claire Muro
Further Development of Raman Spectroscopy for Fluid Investigation: Method Advancement and Validation - Pre Doc Fellowship
National Institute of Justice
10/1/2016 - 9/30/2017
$46,083

Kyle C. Doty
Forensic Investigation of Blood Stains Using Raman Spectroscopy and Chemometrics: Species Differentiation, Kinetic Changes, Donor Age, and Potential False Positives - Pre-Doc Fellowship
US Department of Justice
10/1/2016 - 9/30/2017
$49,993

Jan Halámk
Novel Concept for Fingerprint Analysis
National Institute of Justice
1/1/2017 - 12/31/2019
$235,894

Crystal Huynh
New Concept for Fingerprint Analysis: Bioaffinity Based Systems Utilizing Amino Acids - Pre Doc Fellowship
National Institute of Justice
8/1/2016 - 7/31/2018
$49,862

Igor Lednev
Raman Spectroscopy for Identification of Biological Strains at the Crime Scene: Adapting a Patented New Method to a Portable Instrument
Research Foundation of State University of NY
8/1/2016 - 7/31/2017
$42,500

Vibrational Spectroscopy of Gunshot Residue
National Institute of Justice
1/1/2017 - 12/31/2019
$505,278
<table>
<thead>
<tr>
<th>Project Title</th>
<th>Principal Investigator</th>
<th>Funding Source</th>
<th>Funding Period</th>
<th>Total Funding</th>
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<tr>
<td>Automated Gel Electrophoresis Detection</td>
<td>Rabi Musah</td>
<td>Research Foundation of State University of NY</td>
<td>11/1/2015 - 3/31/2017</td>
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<td>Gamma Crystallin Modifications and Mechanisms of Lens Opacity</td>
<td>Jayanti Pande</td>
<td>National Eye Institute</td>
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<td>Using implantable biomaterial and bio-orthogonal chemistry to guide delivery of antibiotics</td>
<td>Maksim Royze</td>
<td>National Institute of General Medical Sciences</td>
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<td>Targeting RAGE-mDial 1 in Diabetic Complications: Mechanisms &amp; Therapeutics</td>
<td>Alexander Shekhtman</td>
<td>National Institutes of Health</td>
<td>New York University</td>
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<td>I2-thiolactone facilitated peptide ligations</td>
<td>Qiang Zhan</td>
<td>National Science Foundation</td>
<td>9/1/2017 - 8/31/2020</td>
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<td>Scattering Theory, Semi-Classical Analysis, and the Aharonov-Bohm Effect</td>
<td>Ivana Alexandrova</td>
<td>Simons Foundation</td>
<td>9/1/2016 - 8/31/2017</td>
<td>$7,000</td>
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<td>New methods for the study of supercritical wave equations</td>
<td>Marius Beceanu</td>
<td>National Science Foundation</td>
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<td>$107,522</td>
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<td>Representation Theory and Schubert Calculus: Combinatorics and Interactions</td>
<td>Cristian-Paul Lenart</td>
<td>National Science Foundation</td>
<td>09/01/14-08/31/17</td>
<td>$160,000</td>
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<td>Irrational Vertex Algebras, Quantum Modular Forms and Unrolled Quantum Groups</td>
<td>Antun Milas</td>
<td>National Science Foundation</td>
<td>9/1/2016 - 8/31/2019</td>
<td>$138,000</td>
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<td>Experimental Particle Physics at SUNY Albany</td>
<td>Vivek Jain</td>
<td>National Science Foundation</td>
<td>7/1/2015 - 6/30/2018</td>
<td>$140,000</td>
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<td>Operation of the Large Underground Xenon (LUX) Experiment</td>
<td>Matthew Szydagis</td>
<td>Regents of the University of California</td>
<td>US Department of Energy</td>
<td>7/15/2015 - 12/31/2017</td>
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The LUX-ZEPLIN Dark Matter Experiment: From Exclusion to Discovery Potential with Better Simulations and Vetos
US Department of Energy 4/1/2017 - 3/31/2018 $90,000

PSYCHOLOGY
James Boswell
Enhancing Mental Health Care by Scientifically Matching Patients to Providers Strengths
Patient-Centered Outcomes Research Institute | University of Massachusetts at Amherst 9/15/2016 - 9/14/2019 $358,154

Kristin V. Christodulu
Autism Spectrum Disorder
Multiple Sponsors 1/1/2013 - 4/30/2018 $7,350
CARD Albany and NYS Regional Centers for Autism Spectrum Disorders
NYS Education Department 7/1/2016 - 6/30/2017 $1,240,000
CARD Workshops Misc. Support
Multiple Sponsors 1/1/2008 - 5/15/2018 $35,477
CARD: MS Income Account
Multiple Sponsors 7/1/2005 - 3/15/2018 $5,479
Center for Autism & Related Disabilities (CARD) Conferences
Multiple Sponsors 8/1/2012 - 9/15/2017 $79,252
Education for Parents of Children Recently Diagnosed with Autism
NYS Office for People with Developmental Disabilities 1/1/2017 - 12/31/2017 $27,276

Multidisciplinary Behavior Support Program for At-Risk Families of Children with Autism Spectrum Disorders
NYS Office for People with Developmental Disabilities 1/1/2017 - 12/31/2017 $32,572
Statewide Initiative Designed to Increase Capacity of School Teams to Support Students with Autism Spectrum Disorders
US Department of Education | NYS Education Department 7/1/2016 - 6/30/2017 $500,000

Ewan C. McNay
Mechanisms Transducing Insulin and Insulin Resistance in the Hippocampus
National Institute on Aging 5/1/2016 - 1/31/2018 $379,909

Sylvia G. Roch
Assessment Center Participant Motivation: An Applied Perspective and Potential Interventions
Society for Industrial & Organizational Psychology 11/9/2016 - 11/8/2018 $6,000

Kevin J. Williams
Behavioral models for competency-based, psychologically valid assessment tools for human resources management
Outmatch Incorporated 8/25/2016 - 8/24/2017 $47,862
National Science Foundation 9/15/2016 - 8/31/2019 $99,584
Insider Threat Modeling and Behavior Analysis (Sanjay Goel, PI)
Intelligence Advanced Research Projects Activity | General

Edelgard Wulfert
The Impact of Stress on Steroid Hormones and Cue Reactivity in Smokers and Gamblers - Pre-Doc Fellowship: Stephanie Wemm
National Institute on Drug Abuse 2/1/2016 - 1/31/2017 $30,572

SOCILOGY
Glenn Deane
Development of a Supplemental Instructional Course in Reading and Writing Arguments for Ninth Graders at Risk of Leaving School before Graduating (Margaret Sheahy, PI)
US Department of Education 8/1/2014 - 7/31/2017 $38,377
Kate Strully
Immigration Enforcement and the Health of Immigrants and their Children
National Institutes of Health 7/1/2016 - 6/30/2017 $233,637

THE RNA INSTITUTE
Bijan Dey
Dysregulation of miR-133a-5p/HMGA2 axis causes skeletal and cardiac muscle degeneration by impairing autophagy in DMD
American Heart Association Founders Affiliate 7/1/2017 - 6/30/2018 $77,000
Kenneth Halvorsen
Programmable DNA Nanoswitches for Low-Cost, Multiplexed Quantification of Protein and RNA Cancer Biomarkers
National Cancer Institute | Childrens Hospital of Boston 3/7/2017 - 2/28/2018 $115,258

Funded Projects | 47
2017 Chancellor’s and President’s Awards for Excellence

Recipients in the College of Arts and Sciences

Sheila C. Bernard
HISTORY
Chancellor’s Award for Excellence in Scholarship and Creative Activity

Michael Boots
DEVELOPMENT
Chancellor’s Award for Excellence in Professional Service

Louise M. Burkhart
ANTHROPOLOGY
President’s Award for Excellence in Research and Creative Activity

Cynthia Endres
OFFICE OF THE DEAN
President’s Award for Excellence in Support Service

Elizabeth Gaffney
OFFICE OF THE DEAN
Chancellor’s Award for Excellence in Professional Service

Zai Liang
SOCIOLOGY
President’s Award for Excellence in Research and Creative Activity

Alexander Shekhtman
CHEMISTRY
Chancellor’s Award for Excellence in Scholarship and Creative Activity

Ben Szaro
BIOLOGICAL SCIENCES
Chancellor’s Award for Excellence in Scholarship and Creative Activity

Christine Wagner
PSYCHOLOGY
Chancellor’s Award for Excellence in Faculty Service
The College of Arts and Sciences expands our knowledge of the world, of each other, and of ourselves.

Faculty and students explore current and emerging social problems across the globe and here at home;

unleash their creative talent through performance, art, poetry and prose that respond to and define our shared experience;

investigate natural phenomena from the subatomic to the cosmic and all sizes between;

and analyze the body and mind, and the environment surrounding them, to fight disease, extend life, and positively affect the human condition.