



Timothy Weaver, Professor—Emergent Digital Practices

Sound spectrogram image of Pink Amazon River Dolphins (top photo) and image of the dolphin on the surface (bottom photo). Part of a project funded by the Keck Futures Initiative.



UNIVERSITY of  
DENVER

## RESEARCH & SCHOLARSHIP MATTERS

Winter 2017

Publication of the  
Associate Provost for Research,  
Corinne Lengsfeld

### IN THE NEWS

## Unmanned Flight Takes Off at DU!

Before Amazon can deliver packages by drone, serious technological advances need to address increased payload, shorter take offs, and longer flight times. The DU Unmanned Systems Research Institute continues to contribute to these engineering challenges. They developed a lightweight radar system that can be used for sense and avoid, provided significant technical advances into automated flight capabilities, and are currently tackling the issues of lift and drag with an unconventional circulation control wing. The UC<sup>2</sup>AV (Unmanned Circulation Control Aerial Vehicle) utilizes an active flow blowing technique called *Circulation Control* (using upper trailing edge blowing) to improve its aerodynamic performance and provide unique capabilities on the aircraft. What converts any conventional UAV to the proposed UC<sup>2</sup>AV is the novel and complete Circulation Control (CC) system, which consists of custom-built CC wings (CCWs), air supply unit (ASU), air delivery system (ADS) and two plenum designs that provide flow uniformity across the span of the wing. The CC system is built into the aircraft structure as a whole and it is part of the structure itself; although components may be built as a separate item, the whole system functions as one integrated aircraft. Using CC, the aircraft is endowed with improved aerodynamic efficiency (enhanced endurance), increased useful payload (fuel capacity, battery cells, on-board sensors), delayed stall, and reduced runway during take-off/landing.



Dr. Kostas Kanistras with the DU2SRI fixed-wing CC fleet

### FOR MORE INFORMATION

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**NPR's All Things Considered**- "What Legal Recourse Do Victims of Fake News Stories Have?" audio interview with Derigan Silver, Associate Professor, AHSS

**Vox news**- "The Women's Marches May Have Been the Largest Demonstration in US History" quotes from Erica Chenoweth, Professor, JKIS

**5280 magazine**- "Is Congress Gearing Up to Give Away Public Lands?" - quotes from Fred Cheever, Professor, SCOL

**9 News**- "Traditional Brick-and-mortar Stores Closing, Online Retailers Opening Real Stores" - quotes from Melissa Archpru Akaka, Assistant Professor, DCB

**Denver Post**- "New VA Secretary Must Seek Help from Private Sector" op-ed by Jacob Hyde, Faculty Director of Sturm Specialty in Military Psychology, GSPP

**Elle magazine**- "Is Divorce Contagious?" - quotes from Jesse Owen, Associate Professor, MCE, Galena Rhoades, Research Associate Professor, AHSS, and Scott Stanley, Research Professor, AHSS

**Vice news**- "How We Can Make Social Media Less Blindingly Awful in 2017" Adrienne Russell, Associate Professor, AHSS

**PBS NewsHour**- "A Poet Squeezes the Presidential Election Into a Clown Car" featured poem written and recited by Joseph Hutchison, Academic Director, UCOL 1

# University of Denver Fulbright Scholars

(Faculty scholars affiliated with DU at time of award as collected from the Fulbright directories)

<http://www.cies.org/fulbright-scholars>

2016	Mark Siemens	Argentina	1990	Robert Mill	India
2015	Rebecca Aviel	Slovenia	1989	George Barany	Hungary
2014	James Daniels	Czech Republic	1989	Melinda Wood	German
2013	Alison Krogel	Ecuador	1988	Darl Bien	Thailand
2013	Susan Zvacek	Portugal	1986	Paul Dempsey	European
2013	Christof Demont-Heinrich	Germany	1986	Karen Feste	Austria
2013	Anthony Hayter	Thailand	1986	George Barany	Hungary
2012	Cynthia McRae	Uganda	1985	James Barcus	Peru
2012	Aaron Schneider	India	1983	Joseph Szyliowicz	Turkey
2012	Billy Stratton	Germany	1980	Josiah Dodds	Turkey
2012	Wendy Duong	Russia	1979	Mitchell Roderic	Sri Lanka**
2011	Mark Levine	UAE	1979	William Loehr	Chile
2011	Wendy Duong	Vietnam	1979	Sarah McCarten	Germany
2011	Anthony Hayter	Thailand	1978	Peter Vanness	Japan
2010	Thomas Barrett	Croatia	1978	Richard Fabrikant	Iran
2010	Katharine Hobart	Uganda	1976	Steve Carpenter	Belarus
2010	Cynthia McRae	Uganda	1973	Douglas Keister	Copenhagen
2010	Jerome Wartgow	Hong Kong	1973	Wilbert Moore	Japan
2009	Mark Levine	China	1972	William Dorn	
2008	Susan M. Sterett	China	1971	Rod Horton	Portugal **
2007	Mary Ann Danowitz	Austria	1971	George Patterson	Romania**
2007	Mark Levine	China	1971	Thomas Pirkle	Nicaragua
2006	G. Miccio		1970	Thomas Pirkle	Nicaragua
2004	Ruth Parsons	Trinidad and Tobago	1969	Laurence Ross	Belgium
2003	Thomas Russell	Trinidad and Tobago	1965	Francis Myers	Peru
2001	Kathy Green	Slovak Republic	1965	Chadwick Haberstroh	Barcelona
2001	Carol Johnson	Latvia	1965	Harold Dunham	Peradeniya
2000	Daniel Smith	Ghana	1963	Hirman Azford	Pakistan
1999	Patrick Ireland	Morocco	1963	Russell Heitman	Bangkok
1997	Robert Brown	Kazakhstan	1963	Howard Brashers	Sweden
1997	Robert Mill	Budapest	1962	Howard Brasher	Sweden
1996	Robert Sanford	Zimbabwe	1959	Francis Myers	Peru
1995	Susan M. Sterett	United Kingdom	1958	Llyod Garrison	Columbia
1993	Karen Feste	Austria	1957	John Greenway	Australia
1993	David Hopkins	Japan	1956	Donn Hart	Philippines
1991	Margaret Ash	Bolivia	1950	Whit Perkins	Amsterdam
1991	Ronald Farina	Brazil	1949	Beatrice Holt	China
1991	Peter Van Ness	Japan			

## ABOUT THE PUBLICATION

Research and Scholarship Matters is a quarterly newsletter produced on behalf of the faculty of the University by the Associate Provost for Research.

Faculty with notable accomplishments or images suitable to the front panel of the next issue are encouraged to send them to Corinne Lengsfeld, Associate Provost for Research. Not all submissions can be included, but every attempt will be made to be inclusive of all high quality research, scholarship and creative works.

For back issues access:

[www.du.edu/research-scholarship/](http://www.du.edu/research-scholarship/)

\*\* Awarded to faculty at Colorado Women's College prior to merger with DU

## WANT MORE INFORMATION?

Want to receive emails regarding resources, celebrations, opportunities, and upcoming deadlines related to research and scholarship? Join the DU-Research list serve by clicking <https://listserv.du.edu/mailman/listinfo/du-research> and subscribing.

# DU Professors Recognized for Excellence in their Field

## Academic Academy Memberships

Membership in an Academic Academy or National Academy is one of the highest honors a professor can receive. Membership acknowledges and recognizes the excellent and varied contributions the professor made to their field. Listed are DU Professors who have earned such recognition over the years.

### American Academy of Arts & Sciences

Theodore Puck 1967

### American Academy of Social Work and Social Welfare

James Herbert Williams 2017

Jeff Jenson 2011

### American Law Institute

Bruce Smith

KK DuVivier

Ved Nanda

Roberto Corrada

Martin Katz

### National Academy of Science

CS Barrett

Theodore Puck

## Awards and Honors

### National Endowment for the Arts

#### Fellowships to Faculty

Eleni Sikelianos 2015

Brian Kiteley 1991

#### National Poetry Series

Eleni Sikelianos 2002

### National Science Foundation Career Awards

Mark Siemens 2016

Kateri McRae 2016

Michelle Knowles 2015

Kingshuk Ghosh 2012

Siavash Pourkamali 2011

David Gao 2011

Maria Calbi (PECASE) 2010

Barry Zink 2009

Andrei Kutateladze 1999

Scott Leutenegger 1998

### The Whitting Writers Award

Brian Kiteley 1996

## Scholars & Fellows

### American Council of Learned Societies Fellow

David Ciepley 2015

Burton Feldman 1975

Alan Gilbert 1999, 1989, 1979

William Gravely 1981

Josef Korbel 1973

Michael Pulman 1973

### Cottrell Scholars

Honors outstanding scholars in the fields of chemistry, physics, and astronomy.

Dinah Loerke—Physics & Astronomy 2014

Kingshuk Ghosh—Physics & Astronomy 2012

### Guggenheim Fellow

Honors exceptional capacity for productive scholarship or exceptional creative ability in the Arts

Susan Schulten 2010

Brian Kiteley 1992

Marshal Haith 1978

Josef Korbel 1956

### Spencer Fellow—Post Doc

Honors significant scholarly contributions to the field of education

Nicole Russell 2014

Ryan Gildersleeve 2012

All awards listed are identified by the National Research Council as “Highly Prestigious.” If you know of highly prestigious award given to DU faculty but are not captured here, please email them to Corinne Lengsfeld, [corinne.lengsfeld@du.edu](mailto:corinne.lengsfeld@du.edu)

# National Endowment for the Humanities Grants

(Faculty directors affiliated with DU at time of award as obtained from the NEH website)

<https://securegrants.neh.gov/>

Director	Area	Year	Project Title
		Granted	
Susan Schulten	History	2017	A History of America through 100 Maps
Nadia Kaneva	Media Studies	2014	Media and the Making of Post-Communist Consumers in Eastern Europe
Elizabeth Karlsgodt	History	2012	Museum Worthy: Nazi-Era Art in Postwar France
Adrienne Russell	Digital Humanities	2011	University of Denver Institute For Digital Humanities
Brooke Rohde	Preservation	2010	Preserving the Franktown & Kenton Caves Organic Archaeological Collections Museum Of Anthropology
Brooke Rohde	Archaeology	2008	Assessing Perishable Archaeological Collections at the University's Museum of Anthropology
Ari Kelman	History	2004	A Misplaced Massacre: History, Memory and the Making of the West at Sand Creek
Ralph Difranco	Literature	2001	Creating a Database of Spanish Golden Age Verse
Ralph Difranco	Literature	1999	A Database of Spanish Golden Age Verse
Ralph Difranco	Literature	1997	A Database of Spanish Golden Age Verse
Ralph Difranco	Literature	1993	The Complete Poetic Works Of Diego Hurtado De Mendoza 1504-57: A Critical Edition
Victor Castellani	Classics	1992	Heros and Divinities In The Greek Vase Painting
Ralph Difranco	Literature	1991	The Early Poems Of Diego Hurtado De Mendoza
Ralph Difranco	Literature	1990	A Critical Edition of MS B-2486 of the Hispanic Society
Tamara Cohn Eskenazi	Religion	1988	Biblical Models of Community in The Postexile Era
William Gravely	African Amer Studies	1988	The Black Churches North of Slavery 1780-1870
Diana De Armas Wilson	Literature	1988	Cervantes's Alegory of Love: The Labors of Persiles
William Gravely	African Amer Studies	1986	A New Design for Humanities in the Core Curriculum
Diana Wilson	Literature	1984	Cervantes and Borges: Writing and Rewriting Don Quixote
Mary Lanius	Arts	1983	Conference on the South Asian Art and Culture
George Shepherd	Political Science	1982	Human Rights Issues in the Third World
Max Wycisk	Media Studies	1978	Humanities Planning Grant
Carl Raschke	Religion	1978	Religious Language as a Methodological Focus in the Study of Religion
Wayne Roth	Media Studies	1978	Humanities Planning Grant
Kate Kent	Preservation	1976	One Graduate Fellowship in Museum Personnel Training
Josef Korbelt	Russian History	1976	A Trans-Siberian Anabasis the Czechoslovak Legionaries
Kate Kent	Preservation	1975	One Graduate Fellowship in Museum Personnel Training
Robert Roeder	General	1975	American Issues Forum Regional Program
William Gravely	Religion	1974	The Quest For Black American Nationality: From the Revolution to the Civil War
Lola Norris	General	1974	Regional Institute to Support the Bi-centennial American Issues Forum
Kate Kent	Preservation	1974	One Graduate Fellowship in Museum Personnel Training
Kate Kent	Preservation	1973	Museum Fellowship Program
Josef Korbelt	Russian History	1973	A Trans-Siberian Anabasis: The Czechoslovak Legionaries
Kate Kent	Preservation	1972	Museum Fellowship Program
Robert Roeder	General	1971	Project to Upgrade the Humanities at the University
Henry Holland	Philosophy	1971	The Political and Social Thought of Judge Learned Hand
Arthur Gilbert	History	1971	Dialogues with Historians: An Examination of Attempts to Find Meaning in History
Robert Schultz	Philosophy	1971	Film Aesthetics
William Gravely	Religion	1970	Black Experience in America as Interpreted by Negro Churchmen
Robert Roeder	General	1969	Rocky Mountain Region Minorities Program





## Integrated Analysis: The Art & Science of Forecasting

The challenges facing global policymakers are rarely isolated to single issue areas. Nor do they respect time, geographic boundaries or budgetary cycles. Given this reality, the way we think about policy choices should be as integrated and long-term as the very real-world challenges that we aim to address. Those who already recognize the value of thinking in this long-term, integrated way generally rely on intuition, and at best, qualitative reasoning or simple extrapolation to forecast the impact of their widely influential decisions. The International Futures (IFs) model - conceptualized and developed by the Pardee Center's faculty, staff and student research assistants — is a one-of-a-kind, dynamic tool that helps bring more structure, data and academic rigor into that integrated forecasting process. On Thursday, January 19, Professor Jonathan Moyer, Director of the Pardee Center for International Futures, joined Dr. Mathew J. Burrows, Director of the Atlantic Council's Strategic Foresight Initiative, for a presentation to the World Economic Forum annual meeting in Davos-Klosters, Switzerland. To explore this year's theme of "Responsive and Responsible Leadership," the Atlantic Council and Zurich Insurance sponsored a Geopolitical Risks Breakfast, a discussion of the short- and long-term economic consequences of a protectionist world and an investigation of the interconnected imbalances in trade. For a number of years, Zurich Insurance has worked with the Atlantic Council and the Pardee Center to publish a set of qualitative and quantitative studies on the economic impact of global risks. In a new study to be launched in April, Atlantic Council's Strategic Foresight Team and Pardee Center researchers have analyzed the implications of a number of protectionist challenges the world is suddenly facing. The Geopolitical Risks Breakfast in Davos included preliminary results of this study. Presenters used the IFs model, developed at DU's Pardee Center, to help give global business leaders a comprehensive, conceptual framework for long-range thinking about shifts in geopolitics and trade.



### FOR MORE INFORMATION

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## Consumer Insights and Business Innovation Center

Colors, taste, public opinion, patterns...businesses are constantly trying to discern why consumers buy the red one more than the gray, or consume more food if they are in 100 calorie increments, or what makes everyone jump on the bandwagon. Deciphering consumer behavior and perceptions is crucial to marketing a successful product. Yet, businesses often fall short. Daniels College of Business faculty and staff, Ali Besharat, Melissa Archpru Akaka, Gia Nardini, Ana Babic-Rosario, and Karen Gross are working to develop a Consumer Insights and Business Innovation Center (CiBiC) focused on consumers' perceptions and behaviors, and their impact on market offerings. The Center for Statistics and Visualization, in conjunction with University Libraries, offered to temporarily house the Center in Anderson Academic Commons two days per week and flip the space back to regular business use the other five days. This experiment in space utilization allows the participating faculty to refine experimental techniques and center specifications while a permanent location in DCB is completed, accelerates research productivity, and gives the Impact 2025 Implementation Cluster experience in transforming multi-functional space from business to research uses, a critical skill on a space strapped campus with a growing research impact. The launching of CiBiC is exciting, benefiting DCB undergraduate and graduate students, and faculty across the disciplines, encouraging researchers to work together to study important individual, social, and economic issues!

### FOR MORE INFORMATION

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Cluster experience in transforming multi-functional space from business to research uses, a critical skill on a space strapped campus with a growing research impact. The launching of CiBiC is exciting, benefiting DCB undergraduate and graduate students, and faculty across the disciplines, encouraging researchers to work together to study important individual, social, and economic issues!



## MotherWise A DU Partner Program

Dr. Galena Rhoades, research associate professor in the Psychology Department, and Dr. Jennifer Hyer from Denver Health have teamed up to ensure pregnant women from the Denver area receive services crucial for preparing them and their families for a new baby. Pregnancy can be a time of heightened risk for romantic relationship problems, instability, and stress. It has also been deemed a “magic moment” when women are open to and motivated for change in their family life. Since pregnant women are already receiving pre-natal medical care through the Denver Health hospital system, this is an easy time to add on services that would otherwise be an extra trip to the clinic or doctor’s office. This project is currently funded through 2020 and will serve more than 1,000 women. It uses a three-pronged approach: a 6-week healthy relationship education program which focuses on building healthy relationships called *Within My Reach*, a comprehensive case management service that will give women access to other community services, such as mental health services offered within Denver Health’s prenatal care clinics, and workforce development training and counseling through a partnership with the Center for Work, Education, and Employment. In addition, all participants will learn about resources and help for domestic/family violence through DU’s domestic-violence prevention partner, SafeHouse Denver. Women enrolled in the proposed program have the opportunity to attend a separate, couple-based healthy relationship education workshop with their partner. The MotherWise project, funded by federal grants, will be evaluated through a controlled trial to determine the effectiveness of the program on maternal stress, the quality and stability of romantic relationships, co-parenting, and obstetrical outcomes.

### FOR MORE INFORMATION



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## Events

*Events that showcase DU faculty, staff, and student excellence in research and scholarship*

March 1, 2017	Founders Forum
March 2, 2017	Founders Lecture Series
April 7, 2017	Graduate Research and Performance Summit
May 10, 2017	Undergraduate Research Symposium
May 11, 2017	IRISE Showcase
May 19, 2017	Pioneer Symposium

## Deadlines

*Deadlines for internal funding opportunities intended to support research and scholarship*

March 1, 2017	IRISE Faculty and Student Research Proposals
March 1, 2017	Spring PinS Application
March 3, 2017	Public Good Fund
March 22, 2017	Undergraduate Summer Research Grant
March 31, 2017	Spring Faculty Research Fund (FRF) Grant