

TOP STORY

Prof. Kondratov Awarded Competitive R01 Renewal by NIH



Roman [Kondratov](#), a professor in the Department of Biological, Geological and Environmental Sciences ([BGES](#)) and a member of the Center for Gene Regulation in Health and Disease ([GRHD](#)), has received a competitive R01 renewal from the National Institutes of Health ([NIH](#)). The five-year, \$1.5 million award

is for his research project titled “Circadian clock and dietary restriction.”

Dr. Kondratov studies the roles of the [circadian](#) clock and diet in aging. While it is well understood that what you eat will impact your health, the time of day that you eat impacts your internal daily rhythms as well. Dr. Kondratov and his team will study the responses of circadian-controlled processes to calorie restriction, which has been [linked](#) to health benefits and potentially longer life. Understanding the molecular mechanisms of calorie restriction may assist in the development of strategies to increase longevity. Dr. Kondratov acknowledges GRHD, BGES, and the Office of Research for financial and administrative support to maintain a rigorous research program in his laboratory.

Dr. Kondratov’s scientific contributions have been recognized through an invitation to serve on the Cellular Signaling and Regulatory Systems Study Section of the NIH’s [Center for Scientific Review](#), beginning July 1. Study section members review and make recommendations on NIH grant applications while reviewing the status of their field of science. Selection is based on the quality of research accomplishments, publications in scientific journals, and other significant scientific activities, achievements and honors. Congratulations, Dr. Kondratov!

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MEET CSU'S NEW FACULTY

Maksim Isakin, Economics

Maksim [Isakin](#) joined CSU in fall 2016 as an assistant professor in the Department of [Economics](#). Dr. Isakin received his Ph.D. in economics and finance in 2016 from the University of Calgary. Prior to his doctoral studies, he worked as the Director of the [Centre for Applied Economics](#), a consulting department at the Higher School of Economics in Russia.

Dr. Isakin studies financial markets in the presence of informational imperfections. He focuses on the riskiness of collateralized debt obligations ([CDOs](#)). Investment banks use these financial instruments to pool a large number of economic assets and create securities with allegedly very low risk. The market for CDOs demonstrated spectacular growth during the decade before the financial crisis of 2007/2008, but almost dried up following massive downgrades and defaults of highly rated securities during the crisis. Many experts believe that



CDOs were at the core of the financial crisis. Dr. Isakin investigates the role that imprecise credit ratings for these securities played in the financial meltdown by developing theoretical models and evaluating the models using historical market data.

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FEATURED RESEARCHER VIDEO SERIES

Edward Horowitz



Research by Ed [Horowitz](#), an associate professor in the School of [Communication](#), is the focus of the latest installment of the Featured Researcher Video series. Professor Horowitz's research focuses on political socialization and how young adults learn about politics from parents, schools, friends, and media. Click [here](#) to watch.

RESEARCH IN THE NEWS

US Innovation Lead at Risk

Basic research lies at the core of U.S. innovation. Most of the technologies that surround us started from breakthroughs in basic science. The critical importance of funding for basic research is highlighted in an [opinion piece](#) by Rush Holt, CEO of the American Association for the Advancement of Science ([AAAS](#)) and Executive Publisher of *Science* and Maria T. Zuber, chair of the National Science Board ([NSB](#)) and Vice President for Research at MIT. Basic research, especially via academic institutions such as CSU, is a major driver of innovation and economic growth. "The Future Postponed 2.0," a [report](#) funded by the Alfred P. Sloan Foundation, highlights these innovations and the threat of declining investment.



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CSU SCHOLAR NEWS

Ashutosh Dixit, Marketing

As marketing moves toward a digital knowledge paradigm, Professor Ashutosh [Dixit](#) researches marketing theory and practice revolution resulting from the adoption of transformative intelligent agent technologies (IATs).

"IATs are computational systems that inhabit some complex dynamic environment," explains Dr. Dixit, who is a professor in the Department of [Marketing](#) in the Monte Ahuja College of Business. "Companies that understand this new reality can build a unique competitive position and enjoy superior performance and sustained success."

Dr. Dixit and his collaborators are taking the first steps toward developing a marketing-centric definition and a systematic typology of IATs based on marketing concepts (market governance, customer orientation, competitor orientation, and learning orientation) and IAT characteristics (search, analysis, autonomy, negotiation, and collaboration). His recent [paper](#) "Research framework, strategies, and applications of intelligent agent technologies (IATs) in marketing," published in the Journal of the Academy of Marketing Science, was selected to be a finalist for the [Sheth Foundation](#) Best Paper Award.



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Kathy Diehl's *glassPoints* to debut at CSU Spring Dance Concert



Assistant Professor Kathy Diehl
Photograph by Madeline Brenner

Kathleen [Diehl](#), an assistant professor in the Department of [Theatre and Dance](#), will premiere her new work *glassPoints* at the CSU Spring Dance Concert. *glassPoints* explores various compositions by Philip Glass to capture the multifaceted nature of points of view and perception, and plays on the idea of imagery associated with glass materials in terms of quality, function, and sound. In addition, she will premiere a new duet *3 spaces* with musician Matt Ryals and perform *in/out*, which she also choreographed, as part of a trio at the concert.

Prof. Diehl, who joined CSU in fall 2016, takes pride in her students' creativity, commitment, enthusiasm, and growth, and how their lived experience of performing contributes to their development as dance artists. In January, she premiered the structured improvisation

Illuminations of Identity at the [Galleries at CSU](#), and she will perform at the Edinburgh [Festival Fringe](#) this summer.

The Department of Theatre and Dance's [Spring Dance Concert](#) will take place on Friday, March 31 and Saturday, April 1 at the Allen Theatre.

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NEWS FROM THE TECHNOLOGY TRANSFER OFFICE

Invention Disclosure Pipeline

The Technology Transfer Office ([TTO](#)) is currently processing a patent application submitted by Ye [Zhu](#), an associate professor in the Department of Electrical Engineering and Computer Science ([EECS](#)), for a novel login process using a 3D authentication method. Dr. Zhu's invention, *Authentication Method Using Interactive Three-Dimensional Environments*, discloses methods in which a user interacts with virtual three-dimensional environments to authenticate themselves on a mobile device or similar electronic device.



Patent Policy Under Trump

During an eventful start to the Trump administration, the question of how the government will address patent reform has gone largely unanswered. "[Predicting Patent Policy Under the Trump Administration](#)" by Mark Hannemann and colleagues at Shearman & Sterling, LLP, summarizes the on-going patent reform debate and speculates on future patent policy direction under the Trump administration. Additional viewpoints can be found in the article "[Will the Trump Administration Be Pro Patent?](#)" by Joseph Allen.



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RESEARCH OPPORTUNITIES

DARPA Funding for Revolutionary Research

Vice President for Research Jerzy [Sawicki](#) participated in the recent Academic Research Roundtable organized by the Defense Advanced



Research Projects Agency ([DARPA](#)) Defense Sciences Office (DSO), where they announced the opportunity for faculty researchers to meet with the DSO to discuss mutual research interests. Meetings will be held on June 15, 2017 in Arlington, Virginia. Interested faculty should submit an executive summary of an innovative and revolutionary research idea that fits DSO's mission, which is described [here](#). Please submit your executive summary by March 23 to Dan Simon at d.j.simon@csuohio.edu for discussion and feedback.

Your one-page executive summary should summarize your proposed project by succinctly conveying the main objective, key innovations, expected impact, and other unique aspects of the project. Your summary should include a precise, jargon-free, one-sentence response to at least the first five of the following questions: (1) What are you trying to do? (2) How does this get done, at present? (3) What is new about your approach? (4) If you succeed, what difference do you think it will make? (5) How long do you think it will take? (6) Can we transition to your new science/technology? (7) How much will your project cost? Also, identify your project's underlying scientific phenomena or hypothesis, describe how your concept will lead to disruptive science or technology, and identify any unique traits that you bring to bear on the problem.

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RESEARCH EVENTS

Navy Research Event



Naval Surface Warfare Center, Crane Division ([NSWC Crane](#)) will participate in a "Technology & Innovation, Industry &

University Exchange" event on April 11 at Ohio Aerospace Institute. NSWC Crane representatives will discuss how to do business with Crane, areas of expertise they are exploring, and partnership agreements. Technology areas of interest to CSU faculty include testing, manufacturing methods, optics and lasers, antennas, sensors and communication devices, and software.

Registration information for the event can be found [here](#). CSU faculty can register as OAI members.

Housing Hackathon at CSU

Interested in data analytics, geospatial science, or public policy? CSU, in partnership with [DigitalC](#) and the Cuyahoga Metropolitan Housing Authority ([CMHA](#)), will host the CLE Housing [Hackathon](#) on April 7 and April 8. The goal of the event is to identify better methods to illustrate well-resourced areas to families participating in the Housing Choice Voucher Program ([HCVP](#)).



The Hackathon will take place at the Maxine Goodman Levin College of Urban Studies, and registration information can be found [here](#)

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Please share with us important news or updates on your research, scholarly, or creative activities. Updates may be related to a paper that has been accepted for publication in a high-impact journal, a book you've just published, your work that will be exhibited at a prominent institution, or other updates you wish to share with our office. Send details to j.yard@csuohio.edu and d.j.simon@csuohio.edu.

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