

September 17, 2018

Meet NDSU's New Assistant Professors

Each week RCA will feature new assistant professors.
Full profiles are available on the RCA website.

Katie Wissman, Ph.D.

Psychology

What are your primary research and scholarly interests?

My broad program of research focuses on how to enhance student success. In general, I investigate what learning techniques facilitate the long-term maintenance of knowledge and why particular learning techniques help students remember information over extended periods of time.

What excites you about NDSU?

The people! Everyone I have come across so far is supportive, friendly, and excited about research. The resources! I am still wowed by the resources available to me in



the Psychology Department. The collaborative vibe! It's a great feeling to know that there are opportunities to collaborate with people within my department and with people all across campus.

What motivates you?

Thought-provoking questions. In-depth discussions. Learning about other people's research.

[Read more about Katie >>](#)

Ryan Kota, Ph.D.

Health, Nutrition, and Exercise Science

What are your primary research and scholarly interests?

Sport Consumer Involvement, Sport Consumption Behaviors of Ethnic Minority Groups

Where are you from and where did you pursue your education?

I'm from Buffalo, New York and earned my Ph.D. in Sport Management from Florida State University (2018)

What excites you about NDSU?

Collaborative environment within my department, adding to the wealth of quality scholarship, and coming back to a comfortably cold(er) climate.

What motivates you?

I am motivated by knowing I can make a positive difference in the lives of future leaders in the sport industry.



[Read more about Ryan >>](#)



Research Connections Event Aims to Develop Collaborations

A group of NDSU faculty members discussed potential collaborations at a [Research Connections](#) event held September 11, 2018. The subject was the NSF EPSCoR Track-2 program, which focuses on harnessing the data revolution to solve problems of national importance in FY19. Speed networking Research Connections events are held periodically through the year by RCA and are opportunities for building interaction among colleagues in the research community at NDSU. Each session features a different subject with the goal of bringing researchers together to facilitate discussions and collaborations.



When submitting proposals through Grants.Gov Workspace, users have the following options when completing Workspace forms:

- Download forms to complete offline and then upload to Workspace
- Reuse a previously completed form
- Webforms are available for online form completion

Workspace is flexible so that users can utilize any combination of methods to complete forms. For a discussion of the advantages of each option, visit the [Grants.gov blog](#).

For questions on the use of Grants.gov Workspace, please contact Sponsored Programs at ndsu.research@ndsu.edu.

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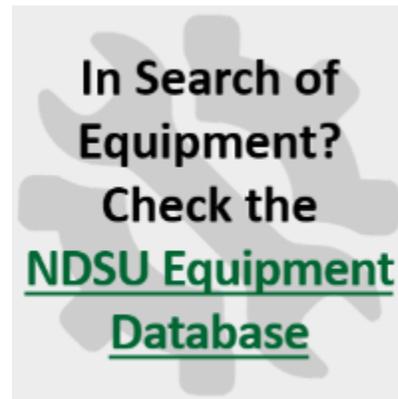
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DHHS / CDC: Small Research Grants on Occupational Diseases and Injuries (R03)

The purpose of this Department of Health and Human Services (DHHS) / Centers for Disease Control (CDC) grant program is to develop an understanding of the risks and conditions associated with occupational diseases and injuries, to explore methods for reducing risks and preventing or minimizing exposure to hazardous conditions in the workplace, and to translate significant scientific findings into prevention practices and products that will effectively reduce work-related illnesses and injuries. The CDC National Institute of Occupational Safety and Health (NIOSH) R03 grant mechanism ([PAR-18-797](#)) supports small occupational safety and health research projects that can be carried out with limited resources such as pilot and feasibility studies, secondary data analysis or development of research methods. Applicants must concisely describe the occupational health burden addressed in their proposal and must link the need for the proposed research activities to planned outputs that will help alleviate this burden. Applicants should clearly articulate the anticipated impacts of the proposed research, both during the project period and beyond.

An [R01 grant mechanism](#) and an [R21 grant mechanism](#) for this topic area are also open.

Application deadline: Standard NIH R03 due dates apply (February 16, June 16, October 16)

Track this opportunity in [Pivot >>](#)



DoD DARPA: Young Faculty Award

The Defense Advanced Research Projects Agency (DARPA) funds the Young Faculty Award ([YFA - DARPA-RA-18-02](#)) which aims to identify and engage rising stars in junior faculty positions in academia and equivalent positions at non-profit research institutions and expose them to Department of Defense (DoD) and National Security challenges and needs. In particular, this YFA will

provide high-impact funding to elite researchers early in their careers to develop innovative new research directions in the context of enabling transformative DoD capabilities. The long-term goal of the program is to develop the next generation of scientists and engineers in the research community who will focus a significant portion of their future careers on DoD and National Security issues. DARPA is particularly interested in identifying outstanding researchers who have previously not been performers on DARPA programs, but the program is open to all qualified applicants with innovative research ideas. See the [FAQs](#) for more information.

Application deadline: November 13, 2018

Track this opportunity in [Pivot>>](#)

In addition to program-specific opportunities such as the Young Faculty Award described above, each DARPA technical office maintains an “office-wide” [Broad Agency Announcement \(BAA\)](#) that covers a range of technical areas of interest to each particular office. The office-wide BAAs are refreshed on an annual basis and offer a mechanism for researchers to reach DARPA with ideas that they feel could be valuable to national security.



DOE ARPA-E: Building Reliable Electronics

The Advanced Research Projects Agency - Energy (ARPA-E) has issued a funding opportunity announcement (FOA) of up to \$15 million in funding for a new program, [Building Reliable Electronics to Achieve Kilovolt Effective Ratings Safely \(BREAKERS\)](#). BREAKERS projects will develop designs for medium voltage, direct current (MVDC) circuit breakers for a variety of applications. BREAKERS projects will inform the creation of new devices capable of better securing the grid by eliminating electrical faults, improving efficiency and reaction times while potentially enabling greater proliferation of renewable

resources and eventual electrification of ships and aircraft. Fields that could benefit from BREAKERS projects include surge protection, transportation electrification, grid distribution, intermittent power interconnection, and offshore oil and gas production. Today's grid is powered mostly by alternating current (AC) electricity. DC current has gained in popularity, thanks in part to lower distribution losses and higher power carrying capacity. Because DC current behaves differently, breakers at higher voltages are prone to electrical arcing, which can lead to fire or breaker failure. BREAKERS projects must overcome this limitation while handling large amounts of power and voltage. Additional information, including the full FOA ([DE-FOA-0001979](#)) and how to find project teaming partners, is available on ARPA-E's online application portal, [ARPA-E eXCHANGE](#).

Application deadline: November 13, 2018, 8:30 a.m. CT



U.S. Department of State: Fulbright Arctic Initiative

The [Fulbright Arctic Initiative](#) will bring together a network of scholars, professionals and applied researchers from the United States, Canada, Denmark, Finland, Iceland, Norway, Russia and Sweden for a series of three seminar meetings and a Fulbright exchange experience. At its core, the initiative will create a network to stimulate international scientific collaboration on Arctic issues while increasing mutual understanding between people of the United States and the people of other countries. Using a collaborative model to translate theory into practice, program participants will address public-policy research questions relevant to Arctic nations' shared challenges and opportunities. Selected scholars will participate in an individual Fulbright exchange of a minimum of six weeks up to three months, as well as in-person seminars and ongoing virtual communication, all supporting the scholars' collaborative research projects.

The Fulbright Arctic Initiative will provide a platform for scholars from across the Arctic region to engage in collaborative thinking, analysis, problem-solving and multi-disciplinary research across two core thematic areas:

1. Resilient Communities, and
2. Sustainable Economies.

Successful candidates will include scholars at all career stages, to include applied researchers, professionals, and Indigenous and traditional knowledge experts active in the academic, public or private sectors that demonstrate outstanding qualifications and a record of experience and accomplishment in an area clearly related to one of the designated research themes. Applicants must be actively engaged in an area of inquiry relevant to the program's themes and objectives, be open to exploring and incorporating comparative, interdisciplinary approaches in their investigations, and interested in developing collaborative activities with other Fulbright Arctic Scholars.

Application deadline: October 30, 2018

Track this opportunity in [Pivot](#) >>



NASA: Research In Life and Physical Sciences

The National Aeronautics and Space Administration (NASA) issues [research announcements](#) for funding opportunities supporting space life and physical sciences (see [Open Solicitations](#)). Researchers can work with NASA to achieve national research objectives by submitting research proposals and conducting awarded research.

To learn more about recent and current research conducted off the Earth from

the community of researchers on the Earth and explore directions for future research:

- View this [video series](#) in which NASA Principal Investigators and Science Team Leads discuss recent scientific research conducted on the International Space Station and sponsored by the Division of Space Life and Physical Sciences Research and Applications (SLPSRA).
- Review [NASA's Space Biology Science Plan for the years 2016-2025](#) to see what research topics they will be seeking in future years.
- Check this [online database](#) to see research projects from current and past funding announcements in the areas of space biology, physical sciences, and human research.

Proposal deadlines vary for each solicitation



ND NASA EPSCoR: Cooperative Agreement Notice

In response to the [FY 2019 Cooperative Agreement Notice \(CAN\) solicitation](#), the North Dakota NASA Established Program to Stimulate Competitive Research (EPSCoR) is soliciting research proposals from faculty at [Affiliate Institutions](#) specifically designed to promote and expand NASA research in North Dakota. To learn about NASA research interests, see the following resources:

- [NASA Strategic Plan 2018](#)
- [NASA Sciences and Exploration Directorate](#)
- [NASA's Space Biology Science Plan for the years 2016-2025](#)

One proposal will be selected by ND NASA EPSCoR for full submission for the CAN. Following preliminary proposal selection by ND NASA EPSCoR, the

selected PI must submit a Notice of Intent (NOI) before *October 22, 2018* and a full proposal by *December 7, 2018*.

Details and guidance for pre-proposals can be found on the [ND NASA EPSCoR website](#). Contact the ND EPSCoR office (ndepscor@ndus.edu) with any questions.

Pre-proposal deadline: Noon on October 8, 2018



NIH: Developing Therapeutic Potential of the Endocannabinoid System for Pain Treatment (R01)

The purpose of this National Institutes of Health (NIH) Funding Opportunity Announcement ([PA-18-917](#)) is to support projects that will elucidate the therapeutic potential of the cannabinoids and endocannabinoid system (marijuana) in the development of mechanism-based therapies for pain. Despite some positive outcomes, none of the cannabinoid-based drugs have yet been approved by the FDA for pain treatment. More clinical and mechanism-based basic research is warranted to develop safe and effective cannabinoid-based pain treatments. Several small trials have demonstrated that cannabis can reduce the sensation of pain, including additive effects over those achieved from concurrent medications. Research is needed to examine cannabis-related compounds as alternative therapies for pain management. Important in this endeavor is to develop a deeper understanding of the role of natural cannabinoids and endocannabinoids in pain perception, processes, and outcomes. Research is also needed to determine how to modulate key endocannabinoid receptors, ligands, and enzyme levels in pain conditions.

Application deadline: Standard NIH R01 due dates apply (February 5, June 5,

October 5)

Track this Opportunity in [Pivot >>](#)



Terra Foundation: American Art Scholarship

The [Terra Foundation for American Art](#) actively supports projects that encourage international scholarship on American art topics, as well as scholarly projects with focused theses that further research of American art in an international context. Academic program funding is available for in-person exchanges such as workshops, symposia, and colloquia that advance scholarship in the field of American art (circa 1500–1980) that take place:

- In Chicago or outside the United States, or
- In the United States and examine American art within an international context, with at least half of the participants coming from outside the United States.

Additionally, the foundation welcomes applications for international research groups. Such groups should involve 2 to 4 faculty members from two or more academic institutions, at least one of which must be located outside the United States. Groups should pursue specific research questions that will advance scholarship and meet in person two or more times.

Visual arts that are eligible for Terra Foundation Academic Workshop and Symposium Grants include all visual art categories except architecture and commercial film/animation. The Foundation favors programs that place objects and practices in an art historical perspective.

The Terra Foundation also has grant programs for [Exhibitions](#), [Fellowships and visiting professorships](#), and [Publications](#).

Letter of Inquiry deadline: December 7, 2018

Track this Opportunity in [Pivot >>](#)



RCA Office Hours on Friday, September 21

Due to Homecoming activities on Friday, September 21, 2018, the Office of Research and Creative Activity (RCA) will be open from 7:30 a.m. to 4:00 p.m.



Nebraska EPSCoR Conference: "Microbiomes from Different Habitats: Soil, Water and Gut"

A two-day symposium, "Microbiomes From Different Habitats: Soil, Water and Gut," gathers experts October 16-17 at the Embassy Suites Hotel in downtown Lincoln, Nebraska. Registration (free) closes October 1, 2018. Speakers include The Atlantic's Ed Yong, and a special session offers an interactive workshop on how scientists can succeed in media interviews.

This conference is part of the Nebraska Research & Innovation Conference (NRIC) annual series, conducted by Nebraska EPSCoR and funded by the National Science Foundation (NSF). In 2016 a five-year, \$20 million NSF project established the Center for Root & Rhizobiome Innovation (CRRRI): a collaboration to research crop productivity focused on plants' root microbiome. CRRRI scientists aim to grow scientific knowledge that will better feed the world's growing population.

Students and faculty interested in attending the 2018 NRIC event should

register at <http://nric.nebraska.edu> (note: deadline for discount hotel room reservations at the group rate is September 24). Attendees may also present a relevant poster in the event's poster session on the afternoon of October 16 (posters must be registered no later than October 1).

If you have questions, you can contact the ND EPSCoR Office:
ndepscor@ndus.edu.



Grants.gov Workspace: New Features

Beginning in October, Grants.gov will be updated to improve the user experience. Release 16.3 maintenance will take place October 20-22, 2018, which will result in the system being unavailable during that time. Scheduled improvement features include:

- enhanced security in the password reset process,
- new “Related Opportunities” to make grant searches easier,
- new “Related Submissions” for ease in identifying resubmitted applications, and
- enhanced Application tracking.

For questions on the use of Grants.gov Workspace, please contact Sponsored Programs at ndsu.research@ndsu.edu.



NSF Update: Budget Justifications

The National Science Foundation (NSF) is requesting that all universities define their year. NSF has a limit of two months for every senior personnel being paid on a grant with few exceptions. Exceptions are found at the [Frequently Asked Questions](#) page. The year must be defined in order for NDSU to track this limitation. NDSU has chosen to define a year as a fiscal year. In the personnel section of the budget justification, please write “NDSU defines a year as a fiscal year, July 1st to June 30th.”



Have questions, ideas, or suggestions for the RCA Update?

[Contact Us](#)



The Office of Research and Creative Activity (RCA) sends weekly emails to NDSU faculty and staff to provide current information on various topics including funding opportunities, grant program changes, research resources, deadlines, notices, and training.

You are receiving this notification through the NDSU official employee listserv or sub-list. The official listserv refreshes after each pay period.

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