

FACULTY RESEARCH FUND GRANTS, FALL 2014

When Awarded	Recipient's Name	Unit	Department	Project Title & Description
Fall 2014	Cedric Asensio	Biology	NSM	Identification of genes involved in the secretion of adipose-derived hormones. The adipose tissue not only serves as a fat storage depot, but also plays an important role as an endocrine organ by secreting hormones that contribute to the regulation of energy metabolism. Despite the significance for diseases such as obesity and type II diabetes, the cellular mechanisms controlling this process are not well understood. This project aims at identifying genes involved in controlling the secretion of these adipose-derived hormones using a recently developed genome-editing technique to inactivate gene function. The proposed research will serve as the first step towards the development of future tools for manipulating this process in vivo.
Fall 2014	Victor Castellani	Languages & Literature	AHSS	Iconography of Greek gods, visible and invisible: next stage. For years I have studied indications Greek gods' activity in literature and in visual arts, especially Athenian vase-painting. I revise contemporary understanding of scenes on myriad vases where gods' involvement, though clear to ancient Greeks, has been misunderstood or completely missed. Best place in the world to pursue this is in Oxford, at Sackler Library and Beazley Archive. They house unique resources that make my work easy there, impossible here. Working there in March 2014 and again this year permitted me to compose conference papers, to prepare lectures for classicists at universities abroad, to complete an article accepted for publication.
Fall 2014	Jing Li	Geography & Environment	NSM	Cloud-enabled Remote Visualization for Massive Climate Data. Visualization of environmental phenomena captured by large datasets allows us to create 3D and 4D visual representations of those phenomena with which we see data in new ways and generate new questions. However, a major obstacle is the lack of computational resources to support massive data visualization. I request funds to experiment a new cost-effective method of using cloud computing technology to build a remote visualization framework. The proposed method will enable new ways to climate visualization by removing computational barriers for end users and contribute to the big data research by delivering a new solution to massive data visualization.
Fall 2014	Jeffrey Lin	Sociology & Criminology	AHSS	Rules and Norms in an Unregulated Environment: Pick-up Basketball as an Informal Social Institution. This project examines informal social institutions in American life through the study of recreational ("pick-up") basketball. The research focuses on the

				ways that player behavior, structural game characteristics, and the broader environment in which games occur shape playing norms and rules enforcement. To map these complex phenomena I use a mixed methods approach involving ethnography of pick-up basketball games within a quantitative survey of players. This innovative methodological strategy will yield rich data on the multitude of ways that players negotiate meaning and regulate play in an environment without an external authority to manage these issues.
Fall 2014	Seth Masket	Political Science	AHSS	Computer Code for Legislative Roll Call Journals. I am seeking funding in the amount of \$1,000 to allow me to hire a computer programmer through Rent-A-Coder.com to develop a program that extracts roll call votes from text files of state legislative journals. This would help me create the dataset I require in order to analyze legislative partisanship in late 1800s - early 1900s Wisconsin and finish a chapter of my book.
Fall 2014	Thomas Nail	Philosophy	AHSS	The Figure of the Migrant. This book offers the first monograph to develop a political philosophy based on the figure of the migrant, as opposed to the citizen. Grounded in the current interdisciplinary scholarship on migration, this volume argues that the migrant should be understood as the defining figure of contemporary politics. This book also offers the first book-length political philosophy of movement. This political philosophy of movement serves as the theoretical frame by which to understand and analyze historical and contemporary migration. This work examines what it would mean to reinterpret the history of political power from the perspective of the force of movement, and thus from the perspective of the political figure most defined by movement: the migrant.
Fall 2014	Ann Petrila	N/A	GSSW	Five Days in July. From 1992 – 1995 Bosnia was consumed by war, culminating with the killing of 8000 men and boys in July 1995. This has been ruled genocide by the International Criminal Tribunal for the former Yugoslavia. People were killed at 6 execution sites and there were only 1 or 2 survivors at each of these places. Their stories have never been told and in the climate of genocide denial that exists in this region, their story needs to be told. My plan is to interview them, in conjunction with a Bosnian colleague and write their stories so that their voices are heard.
Fall 2014	Trace Reddell	Emerging Digital Practices (program)	AHSS	Sonic Science Fiction 2: Themes for Imaginary Films. “Sonic Science Fiction 2” will be an album of original soundtracks composed for imaginary films. Prompted by written works never adapted for the screen, my scores reference the various eras of science fiction film music history. The project incorporates a robust range of analog synthesizers and sound-processing equipment as well as software emulations of the

				vintage electronic devices that have defined the sound of science fiction. An alternate history, the album extends my scholarly explorations of the auditory experiences of science fiction cinema into my own creative practice. Outlets for the work include online audio distribution platforms and live performances.
Fall 2014	Jeremy W. Reynolds	Lamont School of Music	AHSS	American Voices: New Music for Clarinet, Viola, and Piano. This project American Voices: New Music for Clarinet, Viola and Piano is an exciting initiative that aims to add repertoire to the collection of music for this beautiful combination of instruments. These new works written by Kenji Bunch, Michael Kimber and Anthony Constantino, will be performed throughout the United States leading up to the official premiere in Carnegie Hall on April 7, 2015. Soon after, the participants of the program Clarinets for Conservation in Moshi, Tanzania will hear these compositions. The culmination of this project will be a recording made on the MSR Classics record label to be distributed internationally.
Fall 2014	Alison Schofield	Religious Studies	AHSS	Research Assistance for a Contracted Monograph on the Dead Sea Scrolls: An Initial Translation of The Community Rule. I have signed a contract provide the official translation, textual notes and commentary on the most significant Dead Sea Scroll, the Community Rule. This charter text contains the most information about who wrote the Scrolls, and I have been commissioned by Brill Publishers and the Dead Sea Scrolls Foundation to provide the official edition of this text. The first phase of my project, the translation, will be completed and made available to the public by December 2016, and to keep with this deadline, I require consistent, knowledgeable research help from a graduate student.
Fall 2014	Toshiya Ueta	Physics & Astronomy	NSM	Sky Monitoring for Astronomical Research at DU's Echo Lake Field Station. We, DU astronomy faculty, are considering a possible relocation of the Meyer-Womble Observatory atop Mt. Evans to the Echo Lake Field Station. This move would resolve several chronic issues with the summit facility, including summer-only access and offgrid electrical power. An observing facility at Echo Lake, still one of the world's 10 highest observatories, would guarantee a steady influx of data to increase our research volume while promoting greater student participation. FRF funds allows us to begin site-testing immediately. The collected test data also helps us invite outside collaborators and obtain external funding for telescope upgrades.