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2012

Professional Promise in Research and Creative Achievement (2012)

Allison Buchan

Joshua Fu

Matthew Gray

Katherine Grywacz-Jones

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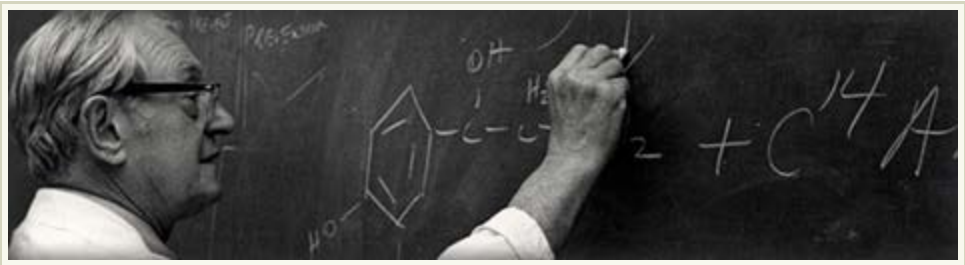
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2012 Professional Promise in Research and Creative Achievement

ALLISON BUCHAN

Allison Buchan, associate professor of microbiology, concentrates on Roseobacter, an important group of recently recognized microorganisms that impact the ecology of aquatic environments. She has received significant and continuous funding from the National Science Foundation. The awards for her work place her in the top 10 percent of all research scientists in the country, due to the extremely strong competition for these grants.



JOSHUA FU

Joshua Fu is associate professor in the Department of Civil and Environmental Engineering. His research looks at the impact of climate change on energy infrastructure, air pollution, water availability, health, and extreme events like flood and drought. From 2007 to 2011, Fu received funding of \$3 million from a wide variety of national and international organizations. His projects bring about collaborations with Harvard, Cal Tech, Argonne National Lab, and NASA.

MATTHEW GRAY



Professional Promise in Research and Creative Achievement honors are awarded to tenured or tenure track faculty members at the assistant or associate professor rank who have received national and/or international recognition in their fields and show professional promise for their research and creative achievement.

2012 Honors

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Matthew Gray is associate professor of forestry, wildlife, and fisheries. His research explores the interface between agricultural production and wetland ecosystems. Gray conducted the first study in the nation that examined amphibian use of farm ponds with cattle access. He also studies waterbirds and has guided TVA on how best to draw down their reservoirs to provide a habitat for these birds. Gray's expertise also includes wildlife health, specifically pathogen infection and disease emergence in agricultural wetlands.



KATHERINE GRYWACZ-JONES

Katherine Grywacz-Jones is an assistant professor in the Department of Physics and Astronomy. She joined the physics faculty in 2006 and researches the intersection of nuclear structure, nuclear reactions, and nuclear astrophysics. In the last five years, she has published more than thirty peer-reviewed articles and several articles in conference proceedings. Her latest research accomplishment was published in the prestigious journal Nature and highlighted on the cover of Physics Today.