

# The 11<sup>th</sup> Annual Undergraduate Spring Research Symposium

Since 2001, the Undergraduate Research Network's Symposium has been an event in which undergraduates at the University of Virginia share their research with faculty and other students. Students researching in all fields are encouraged to apply and present their work.

Past presentations have included topics ranging from "Unveiling the Boxy Bulge and Bar in the Andromeda Spiral Galaxy" to "Rescue and Refuge: the Jewish Danes as Refugees in Sweden, 1943 - 1945" and "Temperature and Acid-Base Regulation in the American Lobster".

The Symposium is the culmination of URN's Research Week, which is full of events and workshops dedicated to undergraduate research.



The Undergraduate Research Network would like to thank the UVA community and the Center for Undergraduate Excellence for their help and support.



**Sponsored by:  
The University of Virginia  
Undergraduate Research Network**

**April 29, 2011  
The Byrd Room of the Harrison Institute  
Charlottesville, Virginia**



## Presentations in the Sciences

**10:00 am – 10:30 am**

**Ms. Kaitlin Heffron**

“Physical Presence Impacts Perceived Stress  
in Performance Settings”

**10:30 am – 11:00 am**

**Mr. Stephen Holtz**

“Ultrastructural Morphology and Synaptic Organization of  
Parabrachial Input to the Rat Gustatory Thalamus”

**11:00 am – 11:30 am**

**Ms. Virginia Purvis & Ms. Katy Lai**

“What are We Eating? An Isotope Analysis of Foods”

A special thanks to our

**Judges in the Sciences**

Professor Robert Kretsinger: Biology

Professor Sarah Kucenas: Biology

Professor Robert Swap: Environmental Sciences

## Presentations in the Humanities

**12:30 pm – 1:00 pm**

**Ms. Chelsea Mary Vonu**

“Ecotourism Along the Pacific Coast of Costa Rica”

**1:00 pm – 1:30 pm**

**Ms. Lillian Frost**

“How Does Al-Jazeera Arabic Influence  
Jordanian Political Attitudes and Identities?”

**1:30 pm – 2:00 pm**

**Mr. Brad Brown**

“Historical Examination of Headache Triggers: Millennia of  
observations by philosophers, physicians, and other  
theorists underlie current conceptualization of headache”

**2:00 pm – 2:30 pm**

**Ms. Trenley Anderson**

“Musical Growth and Decay”

A special thanks to our

**Judges in the Humanities**

Professor Marcia Childress: Biomedical Ethics & Humanities

Professor Karlin Luedtke: Studies in Women & Gender

Professor Tyler Jo Smith: Classical Art and Archaeology