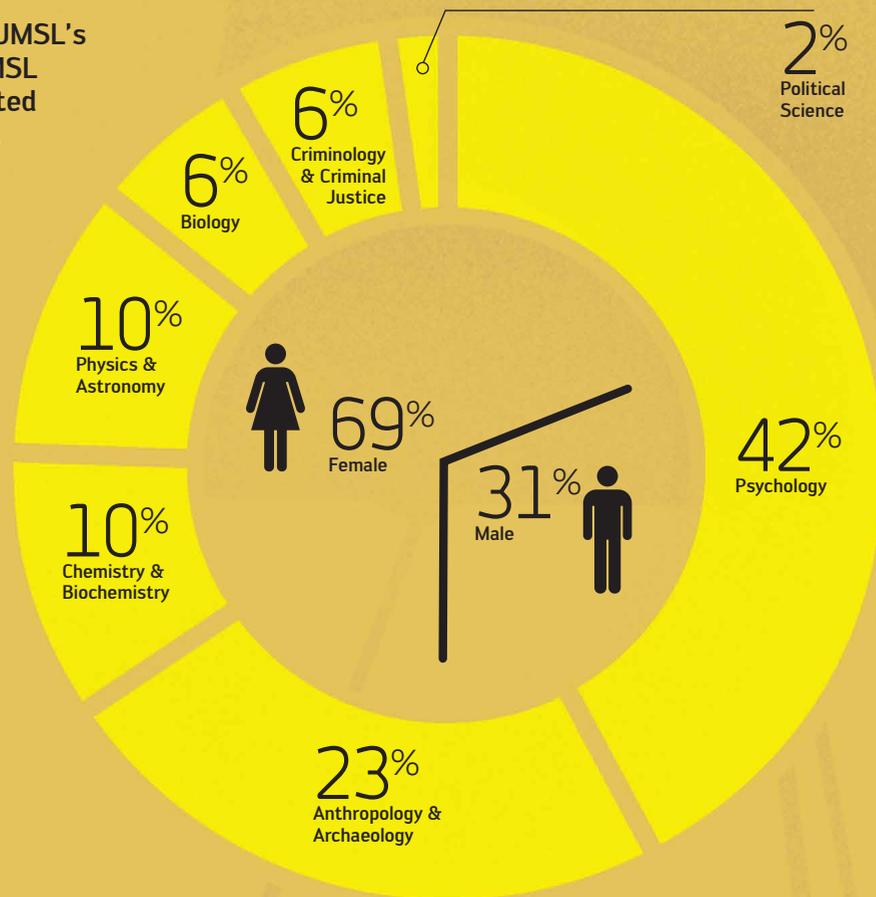
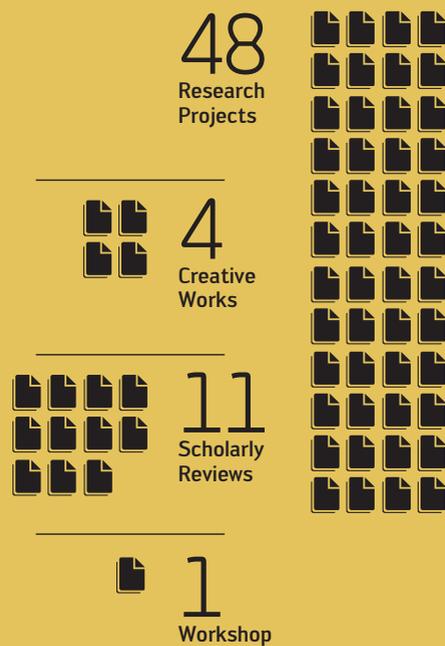


# Researchers in training

UNDERGRADUATES PUT THEORY INTO PRACTICE

Fatema Medhat's exploration around the city can be linked to a theory she learned in a University of Missouri–St. Louis classroom. The idea that ignoring a broken window and other visible signs of disorder could foster more serious crimes piqued her interest. And so, the philosophy and criminology and criminal justice double major took to the streets to test the hypothesis and discover new correlations.

Similar stories of research inspirations beginning in the classroom are available across the UMSL undergraduate research scene. A glimpse into some of this student-driven inquiry is available annually at UMSL's Undergraduate Research Symposium. Here, UMSL Magazine examines some of the topics presented and curiosities satisfied during the 2018 event.



## Topics of interest

**Tianna McBroom, physics major**

Adviser: Professor Eric Majzoub

*Density functional theory studies on the thermodynamic and structural properties of silicon-based borohydrides*

**Ari Zakroff, biology major**

Advisers: Associate Professor Godfrey Bourne, Professor Thomas Meuser and Interim Dean of the Pierre Laclède Honors College Dan Gerth

*Lizards, warming climate and body temperature: How hot is too hot?*

**Claudia Campbell, psychology major**

Adviser: Assistant Professor Rachel Wamser-Nanney

*Children's perception of coping efficacy and symptoms following childhood trauma*

**Brian Rainey, criminology and criminal justice major**

Adviser: Associate Professor Terrance J. Taylor

*A multifaceted exploration of the factors associated with youth's risk of experiencing violent victimization*

**Anastasia Jensen, chemistry major**

Adviser: Professor Keith Stein

*Glycoprotein detection on nanoporous gold by electrochemical methods*

**Joseph McBride, psychology major**

Adviser: Associate Professor Zoë Peterson

*The association between sexual narcissism and sexual coercion perpetration: Gender as a moderating variable*

