

A hub of discovery

The College of Arts and Sciences is fortunate: we have the opportunity to be both foundational and transformative; traditional and innovative; highly focused and wildly collaborative.

We are woven into the fabric of the University and serve as a hub of discovery, creativity, and knowledge. Together with the core educational mission of the college, the foundational research happening all across CAS significantly contributes to the University's overall impact on our society, our economy, our environment, and our future.



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From the detail of DNA to the vast expanse of the universe, CAS researchers are pushing the boundaries of current understanding. Projects now under way in the sciences include:

- Leading an international maternal health study that could one day save the lives of babies worldwide
- Developing smart homes and eldercare initiatives to enhance everyday living for the world's aging population
- Discovering how plant genomics and physiology affect flower and seed development, increase drought resistance, and move nutrients
- Evaluating physical and chemical changes of materials in extreme environments (including extreme cold and ultra-fast compression) and developing potential applications in areas from aerospace to environmentally friendly hydraulic fluid
- Tracking radioactive materials, measuring environmental samples, and assessing the role of nuclear power in climate change

- Leveraging genetics to detect and treat prostate cancer and to identify the effects of pesticide exposure
- Expanding our understanding of the physiological impact of fatigue, particularly for first-responders.

This is just a small sample of the broad array of disciplines and world-class research in our community. Next month, we'll highlight some of the amazing scholarly and creative activities the arts and humanities.