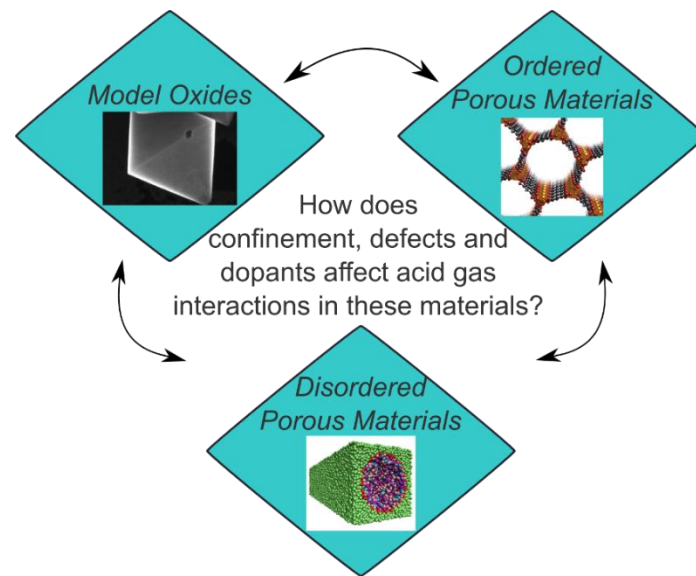


# Center for Understanding and Control of Acid Gas-Induced Evolution of Materials for Energy (UNCAGE-ME) Krista Walton (Georgia Tech); Class: 2014-2022

**MISSION:** To develop and harness a deep knowledge base in the characterization, prediction, and control of acid-gas interactions with a broad class of materials to accelerate materials discovery in acid gas separations, conversion, and utilization.



<http://efrc.gatech.edu>

## RESEARCH PLAN

Degradation effects are often decisive factors in the practical use of materials such as sorbents for carbon capture, acid gas conversion, and natural gas purification. Our core research model is to use a variety of in-situ experimental tools coupled with complimentary modeling techniques and machine learning to improve the performance of materials in these environments and advance materials discovery.