




# SOUTH DAKOTA MINES

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## Department of Geology and Geological Engineering GGE Research Highlights...

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GGE Research Highlights...

MS student Erica Cung shares with us a brief overview of her research.

Our understanding of how magmas evolve is dependent on the development and application of models of the trace elements signatures of igneous suites. Such models are calibrated using experimental data, much of which is produced for reasons unrelated to the creation of predictive models.

My research involves describing how inconsistencies in the experimental database impact the accuracy of our models of natural systems and quantifying the magnitude of the biases we may introduce. In effect, I am attempting to understand how reliable the answers we obtain from models may be – using known unknowns to identify unknown unknowns.

Click on the following link to learn more about our department's diverse research areas:  
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