## EDUCATION

(08/08 - 12/13)

Geochemistry PhD, GPA 3.89

" Geochemistry and Mineralogy of the Three Crow Roll-front Uranium Deposit Alteration Halo, Nebraska,

USA"

Identifying the processes occurring within a uranium roll-front and the resuln-4 (h)c 194.93 0 Tiko-5.667 (w)5 (ow)

:

"Developing Dye Sensitized Solar Cells Incorporating ZnS Nanoparticles" Determining suitability of various zinc nanoparticle materials for use in r

## Employment

(8/14 – present)

Teaching in several areas of chemistry at South Dakota State University and Lake Area Technical Institute: Prepare lecture materials including notes, examples, quizzes, homework, and exams Prepare laboratory materials and guide students through practical laboratory exercises Collaboration with other instructors of General Inorganic and General Organic and Biochemistry courses in evaluating course materials and peer observation Involvement in departmental meetings, governance, and committees

(11/13, 4/14 - 8/14)

Scored standardized test questions for middle and high school Scored middle school mathematics and science and high school English and science Brief experience managing scoring team

(06/09 - 08/13)

PhD thesis research with Dr. Thomas Monecke and Dr. Richard Wendlandt coverd several areas: Characterization of geologic materials using optical and cathodoluminescence microscopy, Qemscan, SEM, LA-ICP-MS, TEM and XRD Interpretation of data and generation of geochemical and mineralogical gradients relevant to exploration for roll-front uranium deposits Written and oral communication with sponsor company and professional societies

(08/08 - 05/09)

Taught general chemistry laboratory

Guided 75 students per semester through practical laboratory exercises Prepared short lectures on laboratory topics, graded labs, and provided one-on-one help outside of scheduled laboratory time

- submitted, in review