

## Personal Information

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## Education

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**2009** **Ph.D. Computer Science, University of Colorado at Boulder, Boulder, CO.**  
*Thesis:* Progressive Visualization-Driven Multivariate Feature Definition and Analysis  
*Advisor:* Professor Elizabeth Bradley  
*GPA:* 3.9/4.0

**2003** **M.S. Computer Science, University of Colorado at Boulder, Boulder, CO.**  
*Thesis:* Immersive Well-Path Planning: Investigating the added value of immersive visualization  
*Advisor:* Professor Clayton Lewis  
*GPA:* 3.9/4.0

**1995** **B.S. Computer Science, New Mexico Institute of Mining and Technology, Socorro, NM.**  
*GPA:* 3.5/4.0

## Experience

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### National Renewable Energy Laboratory (NREL), Golden, CO (June 2009 - present)

**Jun 2009 - present** **Senior Scientist.**  
I lead NREL's scientific data visualization efforts in support of renewable energy research, collaborating with NREL domain scientists in the visualization of complex, large, multivariate data.

### University of Colorado at Boulder, Boulder, CO (April 2001 - present)

**May 2011 - present** **Assistant Professor Adjunct,**  
*Department of Computer Science.*  
I conduct research and oversee student research in scientific data visualization.

**Apr 2001 - Mar 2006** **Professional Research Assistant,**  
*CADSWES (Center for Advanced Decision Support for Water and Environmental Systems).*  
I worked in an interdisciplinary research center on the design and the development of a commercial graphically-based decision support software system implementing object-oriented simulation, rule-based simulation, and linear optimization to model watershed physical processes, water ownership, and policy.

**Jan 2004 - Aug 2004** **Professional Research Assistant,**  
*Department of Molecular, Cellular, and Developmental Biology.*  
I collaborated on the design and development of a pilot study to investigate the added value of using immersive visualization as a molecular research tool.

**Jul 2002 - Aug 2003** **Graduate Research Assistant,**  
*BP Center for Visualization.*  
I designed and developed an interactive 3D immersive application capable of integrating geological, geophysical, reservoir and well data with drilling and platform planning in an immersive virtual environment.