

MURARI KHATIWADA

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EDUCATION

- **PhD candidate, Geophysics, the University of Oklahoma**, Norman, Oklahoma
relevant courses: 3D Seismic Interpretation, Advanced Seismic Modeling, Structural Geology in Extensional Setting, Advanced Field Methods, Earthquake Seismology, Geophysical Methods in Tectonics, Tectonics and Sedimentations in Rift Basins, Gravity and Magnetic Exploration, Advanced Non-Seismic Methods, Integrated Geophysical and Geological Methods
Thesis: "Integrating geophysical techniques to determine the structural and tectonic evolution of sub-basement structures and their relation to over-lying basins" **Current GPA: 3.90/4.00, Expected Graduation Date: August 2013**
- **MS, Geophysics**, Department of Geosciences, **Boise State University**, Boise, Idaho, May 2009. Relevant courses: Problems and Processes in Geophysics, Seismic Data Analysis, Electromagnetic and Seismic Wave Propagation, Borehole Geophysics, Digital Signal Processing, ODE, Stratigraphy and Sedimentology, Finite Element Method
Thesis on 'Numerical Modeling of Time-lapse Seismic Experiments to Monitor CO₂ Sequestration in a Layered Basalt Reservoir', **GPA: 3.84/4.00**
- **M. Sc., Geology**, Central Department of Geology, **Tribhuvan University**, Nepal, **Distinction division** with a **thesis** on 'Application of GPR in Post Construction Evaluation and Monitoring', 2004
- **B.Sc., Geology**, Tri- Chandra College, **Tribhuvan University**, Nepal, 2001

WORK EXPERIENCES AND RESEARCH ACTIVITIES

- **Summer Intern (May-August, 2012): BP Westlake Campus**, Houston, Texas. Project: "**Characterization of Oligocene reservoir potential and prospectivity in the western Gulf of Mexico**"
- **Teaching Assistant:** in ConocoPhillips Schools of Geology and Geophysics, University of Oklahoma, spring 2010, Spring 2011, Fall 2011
- **Seismic Survey Crew** for Geothermal exploration, Clayton Valley, Nevada, 2011
- **Research Assistant:** in ConocoPhillips Schools of Geology and Geophysics, University of Oklahoma for Fall 2009, Summer and Fall of 2010, Spring 2012
- **Research Assistant:** Department of Geosciences in Boise State University, Boise, Idaho (August 2006-May 2009)
- **Summer Intern (June-September 2008): Shell Oil Company**, Bellaire Technological Center, Houston, Texas. Project worked "**Geomechanical Modeling of CO₂ Sequestration**"
- **Summer Intern (May-August 2007): Shell Oil Company**, Bellaire Technological Center, Houston, Texas. Project worked "**Virtual Checkshots Test in Synthetic Data**"
- **Seismic refraction survey** Crew, deployment of Texans for earthquake and regional tectonic study, Tangshan, China, 2010
- **Seismic reflection survey** Crew for ground water study at Central Nevada test site October 2007
- **Vertical Electric Sounding** for the identification of the ground water potential in Syuchatar river valley, Kathmandu, Nepal (2005)

PUBLICATIONS AND PRESENTATIONS:

- **A feasibility study of time-lapse seismic monitoring of CO₂ sequestration in a layered basalt reservoir**, Murari Khatiwada, Ludmila Adam, Michael Morrison, and Kasper van Wijk, Journal of Applied Geophysics, vol 82, July (2012), p 145-152, doi: 10.1016/j.jappgeo.2012.03.005.
- **A Window into the Proterozoic – Using High-quality 3D Seismic Exploration Volumes to Image the Sub-basement in the Southeast Fort Worth Basin**; 2012, Murari Khatiwada, Kurt J. Marfurt, G. Randy Keller and Nabanita Gupta, poster presentation at AAPG Annual Meeting, Long Beach, California, 2012. Selected as one of the top fifteen best student research abstracts
- **Integrating geophysical methods to study subsurface features of the snake river plain, Idaho**; 2011, Murari Khatiwada and G. Randy Keller, Extended abstract, 81st SEG Annual meeting, orally presented
- **Looking Beneath the Snake River Plain Using Gravity and Magnetic Methods**; 2010, abstract, Murari Khatiwada and G. Randy Keller, Poster Presentation, AGU Fall Meeting
- **CO₂ sequestration in a layered basalt reservoir and numerical modeling of time-lapse seismic experiments for monitoring purpose**; 2009 M. Khatiwada, K. van Wijk, L. Adam, and M. Haney, Extended abstract for 80th SEG annual meeting, presented orally
- **Numerical modeling of time-lapse monitoring of CO₂ sequestration in a layered basalt reservoir**; 2008, M. Khatiwada, K. van Wijk, W. P. Clement, and M. Haney; Extended abstract for 79th SEG annual meeting, presented orally
- **Application of GPR in post construction and building foundation evaluation**; 2005, Murari Khatiwada. Journal of Nepal Geological Society, Abstract volume, (Vol. 32, Special Issue)

EXPERIENCES/SKILLS

- Numerical modeling (Geophysical and Geomechanical)
- Seismic data processing, analysis, and interpretation
- Processing and interpretation of non-seismic data (gravity, Magnetic, Electric and Electromagnetic data)
- Imaging and ray tracing
- Processing of borehole lithologs

INFORMATION SYSTEM KNOWLEDGE

- Professional software: Petrel, R5K, Geoprobe, Seiswork, Powerview, ProMAX, GX-II, GM-SYS, Geosoft Oasis Montaj, ArcMap and ArcInfo, Spectral Element Method, MATLAB, Scilab, Tesseract, Zelt, FMTomo, SAC, Jweed, Seismic Unix (SU), Techplots, 123DI, SDA, MIMRS, GMRES, SIPMAP programming platform, ANSYS, basic knowledge of IIW (interactive modeling platform), AutoCAD, SURFER and GRAPHER

MEMBERSHIP IN PROFESSIONAL SOCIETY

- Secretary, SEG Student Chapter, University of Oklahoma (OU), 2012-2013
- Public Relation Chair, Nepali Student Association (NSA), OU, 2010-2011
- President, Nepali Student Association (NSA), OU, 2009-2010
- Treasurer, Boise State University Student Geophysicist Society (2006)
- Secretary of Nepal Geological Student Society (NGSS), 2003
- Society of Exploration Geophysicist (SEG): student member
- Geological Society of America (GSA): student member
- American Geophysical Union (AGU): student member
- American Association of Petroleum Geologist (AAPG): student member
- Life member of Nepal Geological Society (NGS)

AWARDS AND SCHOLARSHIPS

- Mewbourne Family Support Scholarship, ConocoPhillips School of Geology and Geophysics, Fall 2012
- SEG/Anadarko Scholarship through SEG Foundation, 2012
- ConocoPhillips School of Geology and Geophysics Endowed Fellowship, Spring 2012, Fall 2011, Spring 2011
- First Place, Fifth annual Sooner Challenge Bowl, 2011
- Bill & Evelyn Ledeker Sooner Heritage Scholarship, 2011, 2012
- Geophysical Society of Oklahoma City Scholarship through SEG Foundation, 2011
- Aubra Tilley Scholarship through SEG Foundation, 2011
- Charles C. Mcburney Memorial Scholarship through SEG Foundation, 2011
- Cleo Cross International Student Award, University of Oklahoma, 2010
- International students merit Scholarship, Department of Geology and Geophysics, University of Oklahoma, Oklahoma, 2010
- Nelle Fuller Sooner Heritage Scholarship, University of Oklahoma, Oklahoma, 2010
- Graduate Research Residential Scholarship (GRSP), Boise State University, Boise, Idaho (August 2007- August 2008 and August 2008 – August 2009)
- Merit Scholarship of central Department of Geology, Tribhuvan University, Nepal, 2002 and 2003
- Merit Scholarship of Department of Geology, Tri-Chandra Multiple College, Ghantaghar, Nepal 2000

References will be provided upon request