

DHANANJAY KUMAR

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Objective: To obtain full-time position as a Geophysicist.

Education:

Ph.D. candidate, Geophysics August, 01 – Present
University of Texas at Austin, USA **GPA:** 3.8/4.0
Dissertation Topic: Analysis of multi-component seismic data from the Hydrate Ridge, offshore Oregon.
Supervisors: Dr. Mrinal K Sen, and Dr. Paul L Stoffa Expected Graduation: Fall, 04

M.S., Exploration Geophysics July, 95 – June, 00
Indian Institute of Technology, Kharagpur, India **GPA:** 7.7/10.0
Dissertation Topic: 3-D forward modeling and inversion of magnetotellurics data.

Experience:

Geophysicist, BP, Seismic Advanced Imaging, EPTG, Houston Summer, 03
Research Assistant, Hydrate Ridge project (NSF project) Fall, 02 - Present
Scientific Assistant, Acquired multi-component data, Offshore Oregon Summer, 02
Geophysicist, Reliance Industries Limited, Mumbai June, 00 - August, 01
Summer Intern, Oil and Natural Gas Corporation, Calcutta, India May, 99 - May, 99
Summer Intern, Geological Survey of India, Calcutta, India May, 99 - May, 99

Research interest:

Multicomponent seismic data analysis, velocity modeling, and imaging.

Publications:

- **Kumar, D.**, Bastia, R., and Guha, D., 2004, Prospect hunting below Deccan basalt: imaging challenges and solutions: *First Break*, 22, 35-39.
- **Kumar, D.**, Sen, M. K., and Ferguson, R. J., 2004, Traveltime calculation and prestack depth migration in tilted transversely isotropic media: *Geophysics*, 69, 37-44.
- Roy, K. K., **Kumar, D.**, and Biswas, S., 2002, Some Qualitative Aids for Magnetotelluric Data Interpretation: *J. Ind. Geophys. Union*, 6, 55-69.

Expanded abstracts:

- **Kumar, D.**, Sen, M. K., and Bangs, N. L., 2004, Estimation of gas-hydrate saturation at the Hydrate Ridge, offshore Oregon: American Geophysical Union, San Francisco.
- **Kumar, D.**, Sen, M. K., and Bangs, N. L., 2004, P-wave seismic anisotropy on Hydrate Ridge: 74th Annual International Meeting, Society of Exploration Geophysics, Denver.
- **Kumar, D.**, Sen, M. K., 2004, Traveltime computation in tilted transversely isotropic media: 5th Conference & Exposition on Petroleum Geophysics, Hyderabad, India.
- **Kumar, D.**, Brandsberg-Dahl, S., 2004, Seismic modeling in viscoelastic media: 5th Conference & Exposition on Petroleum Geophysics, Hyderabad, India.
- **Kumar, D.**, Sen, M. K., and Ferguson, R. J., 2003, Traveltime calculation and prestack depth migration in tilted transversely isotropic media: 73rd Annual International Meeting, Society of Exploration Geophysics, Dallas.

Presentations:

- Estimation of gas-hydrate saturation at the Hydrate Ridge, offshore Oregon: Dec. 2004, AGU Fall meeting, San Francisco (planned).
- P-wave seismic anisotropy on Hydrate Ridge: Oct. 2004, 74th Annual International Meeting, Society of Exploration Geophysics, Denver.
- Analysis of multicomponent seismic data from the Hydrate Ridge, Offshore Oregon: Sept 8, 2004, Shell Int. E & P, Houston
- Estimation of gas hydrates and free gas at the Hydrate Ridge: Analysis of multi-component seismic data: 28th July, 2004, BP Houston.
- Seismic anisotropy on Hydrate Ridge: April 2004, Leg 204 2nd Post cruise Meeting, Barcelona.
- Traveltime computation in tilted transversely isotropic media: Jan. 2004, 5th Conference & Exposition on Petroleum Geophysics, Hyderabad, India.
- Seismic modeling in viscoelastic media: Jan. 2004, 5th Conference & Exposition on Petroleum Geophysics, Hyderabad, India.
- Traveltime calculation and prestack depth migration in tilted transversely isotropic media: Oct. 2003, 73rd Annual International Meeting, Society of Exploration Geophysics, Dallas.
- Seismic modeling and imaging in anisotropic media: Oct. 2002, AAPG/SEG Student Expo, Houston.

Short courses attended:

- Seismic fluid detection, reservoir delineation, and recovery: Oct. 2004, Denver, by Dr. Gary Mavko (Stanford University).
- Petroleum systems of deep-water settings: Oct. 2004, Denver, SEG/EAGE Distinguished instructor short course, by Dr. Paul Weimer (University of Colorado).
- Cyberinfrastructure summer institute for geoscientists: Aug 16-21, 2004, San Diego Supercomputer Center, University of California, San Diego.
- Application and Interpretation of converted waves: Oct. 2003, Dallas, by Dr. Robert R. Stewart (University of Calgary), and Dr. James E. Gaiser (WesternGeco).
- Understanding seismic anisotropy in exploration and exploitation: Houston, 2002 SEG/EAGE Distinguished instructor short course, by Dr. Leon Thomsen (BP, Houston).
- Multicomponent seismic: Feb. 2001, Dehradun, India, by Dr. Ed Tree, Tulsa.

Honors and awards:

- ConocoPhillips Fellowship, Spring-2004, Fall-2004, University of Texas at Austin
- David Bruton, Jr. Fellowship, 2003-2004, University of Texas at Austin
- Ewing Worzel Fellowship, Fall-2001, Spring-2002, UTIG, University of Texas at Austin

Computer skills:

Operating Systems - Unix, Windows
Languages - Fortran 77 / 90, C, Matlab
Processing Software - Focus, ProMax, USP, GMT, GeoVector
Interpretation Software - Landmark's Applications

Professional membership: SEG, EAGE, SPG, AGU

Visa status: F-1