

DHANANJAY KUMAR

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Education:

Ph.D., Geophysics, 2005, University of Texas at Austin, USA
M.S., Exploration Geophysics, 2000, Indian Institute of Technology, Kharagpur, India

Work Experience (18 years, Geophysicist):

BP, Upstream Technology, Houston	since March 2012
Chevron, San Ramon & Houston	March, 05 - March, 12
Reliance, Mumbai	June, 00 - August, 01

Teaching Experience:

- SEG courses: i) Technical communication for non-English speakers (June 2020),
ii) Synthetic seismograms-construction and use (Jan 2021)
- Geophysical Conference (SPG-2017, India), Seismic AVO modeling & inversion
- Geophysical Conference (SPG-2015, NGRI, India), Quantitative reservoir properties prediction
- Geophysical Conference (SPG-2012, India), Quantitative reservoir properties prediction
- Geophysical Conference (SPG-2008, India): i) Seismic inversion for reservoir characterization,
ii) Seismic wavefield modeling, and iii) Seismic inversion/ Net pay estimation.
- University of California at Berkeley, Nov 21, 2008, for Prof. Jamie Rector's Applied Geophysics class (CE 178), Civil and Environmental Engineering department.
- Patna Science College, Geology department, BS/MS students, Introductory course on Geophysical Prospecting: i) Nov 30, 2017, ii) Dec 20, 2018.

Podcast: SEG podcast #118: The Secret of maximizing your professional career (18 Jun 2021).

Research interest:

Reservoir properties estimation from seismic, Rock Physics, 4D seismic, Shale gas, Gas Hydrates

Recent Publications:

- Zhao, Z., **Kumar, D.**, Foster, D. J., Dralus, D., and Sen, M. K., 2021, Frequency-dependent AVO analysis: a potential seismic attribute for thin-bed identification: *Geophysics*, 86 (4).
- **Kumar, D.**, Zhao, Z., Foster, D. J., Dralus, D., and Sen, M. K., 2020, Frequency-dependent AVO analysis using the scattering response of a layered reservoir: *Geophysics*, 85 (2).
- **Kumar, D.**, 2021, Seismic reservoir characterization: In: Gupta, H.K. (eds), *Encyclopedia of Solid Earth Geophysics*, Springer, https://doi.org/10.1007/978-3-030-58631-7_244.
- **Kumar, D.**, 2019, Deriving seismic AVO intercept and gradient equations: *GEOS*, a publication of Geology & Geophysics department, IIT Kharagpur, India.

Selected Awards:

- BP's Upstream Technology Award 2014, 2019
- Top 30 presentations at the SEG-2014 annual conference
- AGU Outstanding Student Paper Award (Seismology section), 2004 Fall meeting

Professional/Society affiliations:

- President, North American Chapter, Society of Petroleum Geophysicists, 2008-2010, 2010-2012
- Active member: SEG, AGU, GSH, IGU, SPG, Bihar Brains Dev. Society, ISCA