JYOTSNA SHARMA

JSharma@LSU.edu 225-578-6042 Webpage: https://faculty.lsu.edu/jsharma/ Baton Rouge, LA

RESEARCH INTERESTS

• Enhanced Oil Recovery • Fiber Optic Sensing • Machine Learning • Formation Evaluation • Sensors

EDUCATION

Ph.D., Petroleum Eng., **University of Calgary**, Canada 2012
B.Tech., Electrical Eng. (Power), **Indian Institute of Technology Delhi**, India 2006
Exchange Program, Electrical Eng., **University of British Columbia**, Canada 2004

WORK / RESEARCH EXPERIENCE

- Associate Professor, Department of Petroleum Eng., **LSU**, Baton Rouge, LA (USA) 2025-Present
- Adjunct Professor, Department of Electrical Eng. **LSU**, Baton Rouge, LA (USA) 2022-Present
- Assistant Professor, Department of Petroleum Eng., **LSU**, Baton Rouge, LA (USA) 2019-2024
- Research Engineer / Subject Matter Expert, **Chevron**, Bakersfield, CA (USA) 2014-2018
- Reservoir Engineer, **Chevron**, Houston, TX (USA) 2013-2014
- Simulation Engineer, **Chevron**, Calgary, AB (Canada) 2012-2013
- Visiting Scholar, **Stanford University**, CA (USA) Summer 2010
- Research Intern, **Shell**, Calgary, AB (Canada) Summer 2009
- Field Engineer, **Schlumberger**, Whitecourt, AB (Canada) 2006-2007
- Research Intern, **Technische Universität Dresden**, Dresden (Germany) Summer 2005

TEACHING EXPERIENCE

Courses taught at LSU

Graduate Reservoir Engineering, PETE-7041 (Graduate Core course) 2021, 2022
Senior Design, PETE-4998/4999 (Undergraduate Core course) 2020, 2023
Petroleum Economics, PETE-3025 (Undergraduate Core course) 2020-2021
Well Logging, PETE-3036 (Undergraduate Core course) 2019, 2023
Formation Evaluation, PETE-4088 (Graduate and Undergraduate Elective Course) 2019, 2021

Courses taught at Chevron in Bakersfield (USA) and Rumbai (Indonesia)

Basic Thermal Engineering 2015-2018
Applied Heat Management 2015-2018
Steamflood Forecasting 2015-2018
Petrophysics for Heat Management 2015-2018

AWARDS & R

- ***Best Graduate Paper***

Research Project into DAS Machine Learning, Data Optimization, Transmission	SwellFix LLC	1/2022-12/2024	**J. Sharma**	-		102,454	102,454
Wellbore Gas Migration Studies in Drilling Fluids (Phase-II)	Exxon and Chevron	4/2022-12/2022	M. Almeida	**J. Sharma** O. Santos Y. Chen	- Exxon - Chevron	276,441	82,932
Offshore Energy Safety Center	Faculty Research Grant, LSU	2/2022-					

scale Wellbore and its Impact on DAS and DTS Measurements. **IEEE Sensors**, 23(9): 9287-9300. https://doi.org/10.1109/JSEN.2023.3257264.

18. **Sharma, J.***, Santos, O.L., Ogunsanwo, O., Ekechukwu, G.K[1]., Almeida, M., Chen, Y. 2022. Fiber-Optic DAS and DTS for Monitoring Riser Gas Migration. **Journal of Petroleum Science and Engineering**, 220 (Part B): 111157. https://doi.org/10.1016/j.petrol.2022.111157.
19. Santos, O.*, Almeida, A., **Sharma, J.**, et al. 2022. New Experimental Results Show the Application of Fiber Optic to Detect and to Track Gas Position in Marine Risers and Shed Lights on the Gas Migration Phenomenon Inside a Closed Well. **SPE Drilling and Completions**, 38 (01): 34 51. https://doi.org/10.2118/208682-PA.
20. Ekechukwu, G.K.[1], **Sharma, J.*** 2021. Well-scale Demonstration of Distributed Pressure Sensing using Fiber-optic DAS and DTS. **Nature - Scientific Reports** (Nature Publication), 11:12505 (2021). https://doi.org/10.1038/s41598 h

small pipeline leaks. **SPIE Defense and Commercial Sensing Conf**, Orlando, Florida, 30 June - 4 May