

Morteza Dejam, Ph.D.

Associate Professor

University of Wyoming

College of Engineering and Physical Sciences

Department of Energy and Petroleum Engineering

Dept. 3295

1000 E. University Avenue

Laramie, WY 82071-2000, USA

E-mail Address: mdejam@uwyo.edu

Web Site: <https://www.uwyo.edu/petroleum/faculty-staff/dejam.html>

Phone: +1 (307) 766-4395

Education

- **Ph.D. in Petroleum Engineering**, Department of Chemical and Petroleum Engineering, University of Calgary, Calgary, Alberta, Canada (January 2013 - April 2016)
- **M.Sc. in Chemical Engineering/Hydrocarbon Reservoirs**, Department of Chemical and Petroleum Engineering, Sharif University of Technology, Tehran, Iran (September 2007 - August 2009)
- **B.Sc. in Petroleum Engineering/Reservoirs**, Ahvaz Faculty of Petroleum Engineering, Petroleum University of Technology, Ahvaz, Khuzestan, Iran (September 2003 - August 2007)

Research Interests

- Shear dispersion in double-porosity and double-permeability systems
- Geological storage of carbon dioxide (CO₂) and hydrogen
- Geothermal energy harness from sedimentary basins
- Phase behavior of confined fluids in nanopores
- Enhanced oil recovery (EOR)
- Transport phenomena in shale and tight rocks
- Block-to-block interaction processes in fractured porous media

Employment

- **Program Faculty, Associate Professor**, Hydrologic Science Program, Interdisciplinary Program, School of Graduate Education, University of Wyoming, Laramie, Wyoming, USA (April 2024 - Present)
- **Adjunct Associate Professor**, School of Computing, University of Wyoming, Laramie, Wyoming, USA (November 2023 - Present)
- **Associate Professor**, Department of Energy and Petroleum Engineering, College of Engineering and Physical Sciences, University of Wyoming, Laramie, Wyoming, USA (August 2022 - Present)
- **Adjunct Associate Professor**, Department of Petroleum Engineering, College of Engineering and Mines, University of North Dakota, Grand Forks, North Dakota, USA (August 2022 - December 2022)

- **Adjunct Assistant Professor**, Department of Petroleum Engineering, College of Engineering and Mines, University of North Dakota, Grand Forks, North Dakota, USA (January 2021 - July 2022)
- **Assistant Professor**, Department of Petroleum Engineering, College of Engineering and Applied Science, University of Wyoming, Laramie, Wyoming, USA (May 2017 - July 2022)
- **Postdoctoral Scholar**, Department of Chemical and Petroleum Engineering, University of Calgary, Calgary, Alberta, Canada (May 2016 - April 2017)
- **Sessional Instructor** for Advanced Topics in Mass Transfer (ENCH 613) and Process Fluid Dynamics (ENCH 331), Department of Chemical and Petroleum Engineering, University of Calgary, Calgary, Alberta, Canada (July 2016 - December 2016)
- **Lab Instructor** for Engineering Thermodynamics (ENGG 311), Department of Chemical and Petroleum Engineering, University of Calgary, Calgary, Alberta, Canada (January 2015 - April 2016)
- **Reservoir Studies Engineer**, Reservoir Studies Division, Department of Petroleum Engineering, National Iranian South Oil Company (NISOC), Ahvaz, Khuzestan, Iran (January 2012 - December 2012)
- **University Lecturer** for B.Sc. Courses (Including Reservoir Engineering “I” and “II”, Properties of Petroleum Fluids, Petroleum Production Engineering “I”, Well Testing, Applied Numerical Analysis, Engineering Mathematics, Reservoir Rock Properties Lab), Department of Petroleum Engineering, Islamic Azad University of Omidieh (IAUO), Omidieh, Khuzestan, Iran (September 2009 - December 2012)

Editorial Board

- Associate Editor, **Water Resources Research**, American Geophysical Union (January 2024 - Present)
- Associate Editor, **Journal of Hydrology**, Elsevier (August 2023 - Present)

Achievements

Awards

- **SPE Regional Reservoir Description and Dynamics Award**, Society of Petroleum Engineers (SPE) Rocky Mountain North America Region, May 2025
- **Samuel D. Hakes Outstanding Graduate Research and Teaching Award**, College of Engineering and Physical Sciences, University of Wyoming, March 2024
- **Energy & Fuels Excellence in Review Award**, American Chemical Society (ACS), August 2023
- **SPE Regional Service Award**, Society of Petroleum Engineers (SPE) Rocky Mountain North America Region, July 2022
- **Presidential Scholarly Achievement Award for Promising Early-Career Faculty**, Office of the President, University of Wyoming, May 2022
- **Tau Beta Pi Outstanding Undergraduate Teaching Award**, College of Engineering and Applied Science, University of Wyoming, March 2021
- **Top Peer Reviewer Award**, Web of Science Group, September 2019

- **Teacher Appreciation Award**, The Petroleum Engineering Class of 2019, Department of Petroleum Engineering, University of Wyoming, May 2019
- **SPE Regional Reservoir Description and Dynamics Award**, Society of Petroleum Engineers (SPE) Rocky Mountain North America Region, March 2019
- **SPE Regional Distinguished Achievement Award for Petroleum Engineering Faculty**, Society of Petroleum Engineers (SPE) Rocky Mountain North America Region, March 2019
- **Don Stinson Outstanding Teacher Award**, Department of Petroleum Engineering, University of Wyoming, May 2018
- **Schulich School of Engineering Teaching Achievement Award**, Schulich School of Engineering, University of Calgary, June 2017
- **GSA Excellence in Teaching Award (Senior Instructor)**, Graduate Students' Association (GSA), University of Calgary, April 2017
- **Schulich School of Engineering Teaching Assistant Excellence Award**, Schulich School of Engineering, University of Calgary, December 2015
- **Faculty of Graduate Studies Travel Award - International Student**, Faculty of Graduate Studies, University of Calgary, November 2015
- **J.B. Hyne Research Innovation Award**, Faculty of Graduate Studies, University of Calgary, May 2015
- **NISOC Research Excellence Award**, National Iranian South Oil Company (NISOC), December 2012

Scholarships

- **Chemical and Petroleum Engineering Graduate Excellence Scholarship**, Department of Chemical and Petroleum Engineering, University of Calgary, March 2016
- **Len Bolger Memorial Scholarship for Energy Research Excellence**, Alberta Innovates - Energy and Environment Solutions (AI-EES) and Alberta Innovates - Technology Futures (AITF), University of Calgary, June 2015
- **Alberta Innovates - Technology Futures (AITF) Ingenuity Doctoral Scholarship**, Alberta Innovates - Technology Futures (AITF), University of Calgary, May 2015
- **Chemical and Petroleum Engineering Graduate Excellence Scholarship**, Department of Chemical and Petroleum Engineering, University of Calgary, January 2015
- **Talisman Energy Graduate Scholarship in Energy & Related Studies**, Talisman Energy, University of Calgary, June 2014
- **Eyes High International Doctoral Scholarship**, Faculty of Graduate Studies, University of Calgary, May 2014
- **Chemical and Petroleum Engineering Graduate Excellence Scholarship**, Department of Chemical and Petroleum Engineering, University of Calgary, December 2013
- **Penn West Exploration Graduate Scholarship**, Penn West Exploration, University of Calgary, June 2013
- **Ursula & Herbert Zandmer Graduate Recruitment Scholarship**, Endowed through a bequest from the Estate of Ursula & Herbert Zandmer, University of Calgary, January 2013

- **Scholarship for Graduate Research and Teaching Assistantships**, Department of Chemical and Petroleum Engineering, University of Calgary, January 2013
- **Iran Petroleum Ministry Undergraduate Scholarship**, Ahvaz Faculty of Petroleum Engineering, Petroleum University of Technology, September 2003