Jiaxin Yu

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EDUCATION

Visting Student Researcher, Stanford University Doerr School of Sustainability, Department of Energy Science & Engineering	2023
 Ph.D. in Geophysics, Norwegian University of Science and Technology Faculty of Engineering, Department of Geosciences & Petroleum Dissertation submitted in August, 2023 	2020-2023
 M.Sc. in Applied Geosciences, RWTH Aachen University, Germany Insitute of Computational Geoscience & Reservoir Engineering Overall Mark: Sehr Gut (Very Good); Master Thesis 1.0 (Highest) 	2017-2020
B.Sc. in Geology, China University of Petroleum, Qingdao, China School of GeosciencesOutstanding Undergraduate Thesis Award	2013-2017
Teaching and relevant Experience	
 Teaching Assistant, RWTH Aachen University Numerical Reservoir Modeling (NRE 1) NRE Python Exercise (Master level) 	3/2020 - 8/2020
 Student Hiwi, RWTH Aachen University Machine Learning Training Set building for Virtual Microscopy (ERS Prep F "Simulation and Data Science (SDS)") Big Data Management and PetroScan Viewer Development in Python 	12/2018 – 3/2020 Yund Projects:
Awards, Honor, and Scholarships	
• 2023 SSRN's All Time Top Ten download Papers for Environmental Physics	eJournal

- 2023 Overseas Research Grant from The Research Council of Norway
- 2022 Equinor Publication Fund
- 2017 Outstanding Undergraduate Thesis Award
- 2016 Wining Award Fourth National Geological Skills Competition of College Students, Geological Society of China

PROFESSIONAL SERVICES

Reviewer of American Mineralogist, Mineralogical Society of America (MSA)

Memberships

Society of Exploration Geophysicists (SEG) European Association of Geoscientists and Engineers (EAGE) International Association of Rock Physicists (IARP) European Geosciences Union (EGU) International Association for Mathematical Geosciences (IAMG) SEG Student Chapter NTNU, Trondheim

LANGUAGES

Native: Chinese Fluent: English Conversational: German (C1), Norwegian (B2)

PROFESSIONAL PUBLICATIONS: JOURNALS

- Yu, J., Duffaut, K. and Avseth, P., <u>2023</u>. "Understanding the synergistic impact of stress release and cementation on sandstone using sound waves — Implications for exhumation estimation" *Geophysics*, 88, 6, pp.1-87.
- Yu, J., Duffaut, K. and Avseth, P., <u>2023</u>. "Stress sensitivity of elastic moduli in high-porosity cemented sandstone — Heuristic models and experimental data" *Geophysics*, 88, 4, pp. MR185 -MR194.
- Yu, J., Wellmann, F., Virgo, S., von Domarus, M., Jiang, M., Schmatz, J. and Leibe, B., <u>2023</u>.
 "Superpixel segmentations for thin sections: Evaluation of methods to enable the generation of machine learning training data sets". *Computers & Geosciences*, 170, p.105232.
- Yu, J., Mukerji, T. and Avseth, P., <u>2023</u>. "Rockphypy: An Extensive Python Library for Rock Physics Modeling". Accepted by *SoftwareX*, Available at SSRN: http://dx.doi.org/10.2139/ssrn.4486364
- Tian, Y., Stovas, A., Gao, J., Xu, W. and Yu, J., <u>2023</u>. "Tight sandstone gas reservoir characterization via amplitude-versus-offset attributes". *Geophysical Prospecting*, 71, 6, pp.1030-1046.

PROFESSIONAL PUBLICATIONS: MANUSCRIPT TO BE SUBMITTED

- Yu, J., Avseth, P., Mukerji, T., and Duffaut, K. "Effects of overconsolidation and stress release on seismic rock physics: A comparative study between unconsolidated sands and weakly cemented sandstone, to be submitted to *Geophysics*.
- Yu, J., Avseth, P., Holt, M. and Stovas, A. "Stress dependent anisotropy in Norwegian offshore, to be submitted to *Geophysics*.

PROFESSIONAL PUBLICATIONS: INTERNATIONAL CONFERENCES

- Yu, J., Mukerji, T. and Avseth, P., <u>2023</u>. "Open source Python Library for Rock Physics Modeling". Lofotseminaret 2023 in Applied Geophysics, Nyvågar, Kabelvåg, Norway, Oral presentation.
- Yu, J., Duffaut, K. and Avseth, P., <u>2022</u>. "Rock Physics Modeling of Geomechanical and Saturation Effect Caused by CO₂ Injection. 83rd EAGE Annual Conference & Exhibition, Vol. 2022, No. 1, pp. 1-5. Oral presentation.
- Yu, J., Duffaut, K. and Avseth, P., <u>2022</u>, Rock physics modeling of increasing stress sensitivity in weakly to moderately cemented sandstone upon stress release, 6th International Workshop on Rock Physics, Book of abstract, pp. 49. Oral presentation.
- Yu, J., Mukerji, T. and Avseth, P., <u>2022</u>. "Rock Physics Modeling of CCS induced effective stress release". Lofotseminaret, 2022, Nyvågar, Kabelvåg, Norway, *Oral presentation*.
- Tian, Y., Stovas, A., Gao, J., Yu, J., and Li, M., <u>2022</u>, June. Gas saturation characterization of tight sandstone via AVO attributes. 83rd EAGE Annual Conference & Exhibition Vol. 2022, No. 1, pp. 1-5.
- Yu, J., Duffaut, K. and Avseth, P., <u>2021</u>."Rock Physics Modeling for Stress Release in Cemented Sandstone." First EAGE Rock Physics Workshop in Latin America, vol. 2021, no. 1, pp. 1-5. Oral presentation.

Yu, J., Schmatz, J., von Domarus, M., Jiang, M., Virgo, S., Leibe, B. and Wellmann, J.F., <u>2020</u>. "Generating a pixel-wise annotated training dataset to train ML algorithms for mineral identification in rock thin sections". 22nd EGU General Assembly, Vol. 2020, pp. 18865. Oral presentation.