

Mojisola A. KunleDare, PhD

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Summary

Geologist with more than 15 years of post-doctoral experience. Excellent technical skills. Solid background in Clastic Sedimentology and Petrography, Stratigraphy, and Petroleum Geology, and competent Seismic Interpreter. Exposure to a variety of geoscience software, able to learn and adapt to new software quickly. Proficient in volume interpretation and attribute analysis of seismic data and the integration of analogs and models with seismic data for depositional systems analysis, subsurface mapping and correlation, prospect/opportunity generation and maturation and reservoir characterization. Experience with clastic diagenesis and its effects on reservoir quality. Excellent research capabilities, able to define problems, collect data, establish facts, and draw valid conclusions. Strong analytical and problem-solving skills. Ability to successfully lead and coordinate projects, directing the work of others and being directed as needed. Good organizational and oral and written communication skills.

EXPERIENCE:

July 2020 to Date: **NGGDPP Liaison to State Geological Surveys (Intergovernmental Personnel Act Detail), National Geological and Geophysical Data Preservation Program (NGGDPP), U.S. Geological Survey**

- Work closely with stakeholders (Federal, State, Industry, academia) to develop recommendations for establishing a national borehole index for assets preserved under NGGDPP.

January 2017 to Date: **Research Associate II, Delaware Geological Survey, University of Delaware, Newark, DE**

April 2016 to January 2017: **Research Associate I**

- Managing the DGS Atlantic Outer Continental Shelf (OCS) Sample and Data Repository
 - Data and sample discovery, rescue, preservation, and archiving (cores, cuttings, well logs, reports etc.)
 - Subsurface characterization and assessment of the potential resources for carbon storage within interdisciplinary, multi-institution projects
 - Integration, analysis, and synthesis of geophysical, sedimentologic and stratigraphic data; geological interpretation and basin analysis
 - Map and cross-section production
 - Compilation, QC, and organization of well, spatial and reservoir quality data, including digitization of historical data.
 - Assessment of available data and requirements for new and/or further analyses; Legacy data quality and gap analysis
 - Oversight of commercial vendors to obtain required services and results, and supplies.
 - Supervision of a team including a geological assistant and student workers.
 - Coordinating participants across agencies and institutions. Assigning and distributing work and tasks as needed to meet project objectives.
 - Representing the DGS at project meetings and to partners
 - Preparing, contributing to, and reviewing statutory and technical reports
- Software: **Petra, ArcGIS**

Projects:

1. January 2021 to date - Middle Atlantic Coastal Plain Stratigraphic Reconciliation Initiative (“MAAtStrat”) (Sponsor: USGS)
2. July 2020 to December 2020 – National borehole/core index for the National Geological and Geophysical Data Preservation Program (NGGDPP) (Sponsor: AASG/USGS)
3. July 2019 to June 2020 - Rescue, Preservation and Access: Delaware Geological Survey’s Atlantic OCS Sample and Data Repository FY2019 Project (Sponsor: AASG/USGS)
4. July 2019 to June 2020 - Delaware Critical Minerals Data Inventory FY2019 3DEEP (now known as EarthMRI) Project (Sponsor: AASG/USGS)
5. July 2018 to June 2019 - Rescue, Preservation and Access: Delaware Geological Survey’s Atlantic OCS Sample and Data Repository FY2018 Project (Sponsor: AASG/USGS)
6. April 2018 to June 2019 - Midwest Regional Carbon Sequestration Partnership Project - Delaware Geological Characterization (Sponsor: DOE; Led by Battelle Institute)
7. January 2017 to December 2018 - Mid-Atlantic U.S. Offshore Carbon Storage Resource Assessment Project (Sponsor: DOE; Led by Battelle Institute)

July 2013 to June 2015: **Senior Project Geoscientist/Senior Geoscientist, Geoteric (Formerly, ffA, Foster Findlay Associates Ltd) Aberdeen, U.K.**

April 2012 to June 2013: **Project Geoscientist**

Delivering seismic analysis services and interpretation projects; Providing training and consultancy services and technical support; Preparing technical reports; Mentoring and training new hire geoscientists; Projects, consultancy, and training scheduling; Representing Geoteric/ffA to clients, academia, and industry; Participating in internal software, workflow and processes research, development, and testing.

- Projects covered a variety of basins and regions including the North Sea, Norwegian Sea, Barents Sea, West of Shetland, Australia, New Zealand, Malaysia, Myanmar, Caspian, Arabian Gulf, Falklands Islands, Germany, and Hungary and plays in clastic, carbonate and basement settings.
- Projects involved imaging and attribute analysis for reservoir presence and distribution, depositional systems and elements distribution, structural, fault, and fracture analysis for reservoir definition, compartmentalisation, and performance.
- Projects involved analyses applied at exploration, appraisal, well planning, development, and production stages.

Software: **Geoteric** (ffA’s flagship software), **Petrel**, **SMT Kingdom**

January 2006 to September 2011: **Geologist, Deepwater Exploration, ConocoPhillips Nigeria**

- Prospect Generation/Maturation; Structural and Stratigraphic mapping; Seismic amplitude extractions for lead screening; prospect specific mapping and geologic analysis using seismic attributes for evaluation and ranking; geological inputs for, and risking using in house proprietary screening tool for ranking and maturation.

- Post-well analyses and data integration for exploration and appraisal well planning, and development concept selection.
- Deepwater Sedimentation, Depositional Systems and Stratigraphic Analysis; Defining depositional systems and elements and analysing and applying its implications for reservoir presence, distribution, properties, and quality; Application of analogues and models; Defining reservoir architecture in terms of geometry and internal heterogeneities.
- Interaction with partners and regulatory agencies

Software: **SeisWorks, GeoProbe, StratWorks, PowerView, Petrosys, VoxelGeo**

June-August 2004: **Geoscience Internship, ConocoPhillips, Houston, TX, USA**

- 3D Seismic Interpretation using SeisWorks; Analysis and interpretation of depositional systems and elements and deepwater sedimentation processes; Provision of qualitative and quantitative data on shallow seismic analogues.

Software: **SeisWorks, StratWorks, VoxelGeo**

2000 to 2003: **Graduate Teaching/Research Assistant, Geology Department, University of Missouri-Rolla (Now, Missouri University of Science and Technology), USA**

- Graduate Research Assistant, Sedimentary Petrography; Laboratory Teaching Assistant, Petroleum Geology, Mineralogy and Petrology, Departmental Seminar Coordinator, Grader for Stratigraphy and Sedimentation

1993 to 1994: **Research Assistant, Production Geoscience Research Unit, Geology Department, University of Aberdeen, Scotland, UK**

- Shell Nigeria funded Reservoir Characterization project, Outcrop Analogues (Book Cliffs, UT)

EDUCATION:

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| 2005 | University of Missouri-Rolla (Now, Missouri University of Science and Technology), USA, PhD Geology Dissertation: Petrographic Investigation into the Development of Secondary Porosity in Sandstones: A Case Study of the Cambrian Mount Simon and Galesville Sandstones, Illinois Basin. |
| 1999 | Obafemi Awolowo University Ile-Ife, Nigeria, MSc Applied Geology Dissertation: Palynostratigraphy and Palynofacies analysis of EA-13 core, Niger Delta. |
| 1993-1994 | University of Aberdeen, Scotland, UK Reservoir Characterization, Sedimentology |
| 1991-1993 | Obafemi Awolowo University, Ile-Ife, Nigeria, Petroleum Geology/Sedimentology, Palynology, Micropaleontology |
| 1988 | Obafemi Awolowo University, Ile-Ife, Nigeria, BSc (Honours) Geology |

CERTIFICATES AND CERTIFICATIONS:

May – June 2019: Management Essentials Certificate Program, University of Delaware

February 2017: Responsible Conduct of Research, University of Delaware

ACADEMIC AWARDS:

Ian Wilson Memorial Prize for Sedimentology (1988)
AAPG Grants-in-Aid Awards (1992, 1993)
Shell Nigeria Scholarship (1993)
Josephine Husbands Radcliffe Scholarship (2000)
ConocoPhillips SPIRIT Scholars Program “At-Large” Scholarship (2004)

PUBLICATIONS: Peer Reviewed Journals

1. McArdle, N., Iacopini, D., **KunleDare, M.**, and Paton, G. (2014).” The use of geologic expression workflows for basin scale reconnaissance: A case study from the Exmouth Subbasin, North Carnarvon Basin, northwestern Australia.” *Interpretation*, 2(1), SA163–SA177. doi: 10.1190/INT-2013-0112.1

CONFERENCES/PRESENTATIONS:

1. Lydia Cumming, Isis Fukai, Andrew Burchwell, Joel Sminchak, Peter McLaughlin, **Mojisola KunleDare**, Martin Jimenez, Neeraj Gupta (2018). Performing Carbon Storage Resource Assessments for Offshore Mid-Atlantic USA, 14th International Conference on Greenhouse Gas Control Technologies (GHGT-14), 21-26 October 2018, Melbourne, Australia.
2. KunleDare, M. A., and P. P. McLaughlin (2018). “Leveraging a Legacy Sample and Data Collection for Carbon Storage Resource Assessment” 2018 AAPG Annual Convention and Exhibition, Salt Lake City, Utah, May 20-23, 2018. AAPG Datapages/Search and Discovery Article #90323©2018 (Abstract)/ #42240©2018 (Presentation).
3. KunleDare, M.A. (2007). “The “Buckyball Effect”: Framework Grain Stabilization and Secondary Porosity Preservation in the Cambrian Galesville Sandstone, Illinois Basin”. Nigerian Association of Petroleum Explorationists, Lagos, April 2007 Technical/Business Meeting Speaker.
4. KunleDare, M.A. (2007). “The “Buckyball Effect”: Framework Grain Stabilization and Secondary Porosity Preservation in the Cambrian Galesville Sandstone, Illinois Basin”. 2007 AAPG Annual Convention, April 1-4, 2007, Long Beach, California. AAPG Search and Discovery Article #90063©2007 (Abstract)/ Article #50043©2007 (Poster).
5. KunleDare, M.A. (2005). “Relationship between Reservoir Properties of the Galesville Sandstone and Diagenesis of Eau Claire Shale, Cambrian of Illinois Basin” AAPG/SEG Spring Student Expo, Poster Presentation. March 10-12, 2005, University of Oklahoma, Norman, OK.
6. KunleDare, M.A. (2004). “Relationship Between Reservoir Properties of the Galesville Sandstone and Diagenesis of Eau Claire Shale, Cambrian of Illinois Basin” 2004 AAPG Annual Meeting, Dallas, Texas, April 18-21, 2004. AAPG Search and Discovery Article #90026©2004.
7. KunleDare, M.A. (2003). “Effect of Early Cementation on the Development of Secondary Porosity in Sandstones- Examples from the Cambrian of Illinois Basin”. AAPG Mid-Continent Section Meeting Tulsa, OK, October 12-14, 2003. AAPG Search and Discovery Article #90020©2003.
8. KunleDare, M.A., and R.C. Laudon (2003) “Effect of Early Cementation on the Development of Secondary Porosity in Sandstones-Examples from the Cambrian of Illinois Basin. Missouri Academy of Science Annual Meeting, April 19, 2003, Warrensburg, MO.

PROFESSIONAL SERVICE ACTIVITIES:

April 2017: Volunteer field trip/logistics assistant, “3rd Delaware Geologic Research Symposium, Delaware Geology in the Field”

Jan 2018: Reviewer, Geologic Map of the Millington, Clayton and Smyrna Quadrangles of Delaware, Delaware Geological Survey Geologic Map Series No. 24

May 2018 to date: Member, Preservation of Geoscience Data Committee, American Association of Petroleum Geologists

January – June 2018: Member, Logistics planning committee, Delaware Geological Survey for 2018 Association of American State Geologists Conference

June 2018: Volunteer field trip/logistics assistant, 2018 Association of American State Geologists Conference field trips

July - December 2020: Co-Convener, National Index of Borehole Information Working Group

July 2020 to date: Member, Directory of Public Repositories of Geoscience Samples and Data Working Group

October 2020 to date: Reviewer, AAPG/DEG Environmental Geosciences

GRANTS:

1.**AASG/USGS NGGDPP:** \$75,817 (July 1, 2019 - June 30, 2020)

Mojisola A. KunleDare and Peter P. McLaughlin, Jr., (Co-PIs): Association of American State Geologists (AASG)/ U.S. Geological Survey (USGS) National Geological and Geophysical Data Preservation Program (NGGDPP): “Rescue, Preservation and Access: Delaware Geological Survey’s Atlantic OCS Sample and Data Repository FY2019 Project”.

2.**AASG/USGS NGGDPP:** \$70,467 (July 1, 2019 - June 30, 2020)

Mojisola A. KunleDare, Peter P. McLaughlin, Jr., William "Sandy" Schenck and Kelvin W. Ramsey (Co-PIs): Association of American State Geologists (AASG)/ U.S. Geological Survey (USGS) National Geological and Geophysical Data Preservation Program (NGGDPP): “Delaware Critical Minerals Data Inventory FY2019 3DEEP Project”.

3.**AASG/USGS NGGDPP:** \$77,851 (July 1, 2018 - June 30, 2019)

Mojisola A. KunleDare and Peter P. McLaughlin, Jr., (Co-PIs): Association of American State Geologists (AASG)/ U.S. Geological Survey (USGS) National Geological and Geophysical Data Preservation Program (NGGDPP): “Rescue, Preservation and Access: Delaware Geological Survey’s Atlantic OCS Sample and Data Repository FY2018 Project”.

CONTRACT REPORTS:

1.Sampling and Analysis Plan, June 28, 2017, Mid-Atlantic U.S. Offshore Carbon Storage Resource Assessment Project (DOE Award Number DE-FE0026087) – **Contributor**

2.Task 4 Hydrologic Properties Data Package Report, April 30, 2018, Mid-Atlantic U.S. Offshore Carbon Storage Resource Assessment Project (DOE Award Number DE-FE0026087) – **Co-lead Author**

3.Final Technical Report, July 30, 2019, National Geological and Geophysical Data Preservation Program (NGGDPP) Program Announcement No. G18AS00010 – Proposal 2018-0018. Rescue, Preservation and Access: Delaware Geological Survey’s Atlantic OCS Sample and Data Repository FY2018 Project – **Co-Author**

4. Final Technical Report, August 13, 2020, National Geological and Geophysical Data Preservation Program (NGGDPP) Program Announcement No. G19AS00009– Proposal 2019-0022 (Priority 2). Rescue, Preservation and Access: Delaware Geological Survey's Atlantic OCS Sample and Data Repository FY2019 Project – **Co-Author**
5. Final Technical Report, August 13, 2020, National Geological and Geophysical Data Preservation Program (NGGDPP) Program Announcement No. G19AS00009– Proposal 2019-0022 (Priority 3). Delaware Critical Minerals Data Inventory FY2019 3DEEP Project – **Co-Author**

PROFESSIONAL ORGANIZATIONS:

American Association of Petroleum Geologists
SEPM Society for Sedimentary Geology
Geological Society of America
Petroleum Exploration Society of Great Britain
European Association of Geoscientists and Engineers
Houston Geological Society