

# FNU SURIAMIN

Sarkeys Energy Center - T205 ▪ Norman, OK 73019 ▪ [fnu.suriamin-1@ou.edu](mailto:fnu.suriamin-1@ou.edu) ▪ +1 405.325.4437

LinkedIn: <https://www.linkedin.com/in/fnu-suriamin-319a1526/>

Google Scholar: <https://scholar.google.com/citations?user=nwfu8pQAAAAJ&hl=en>

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## EDUCATION

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### **University of Oklahoma | Norman, OK, U.S.A.**

Ph.D. in Geology, May 2020

*Dissertation: Integrated reservoir characterization of a mixed siliciclastic-carbonate system, Mississippian strata of northern and central Oklahoma (Advisor: Dr. Matthew J. Pranter)*

### **Colorado School of Mines | Golden, CO, U.S.A.**

M.Sc. in Geology | Summa cum Laude, May 2011

*Thesis: Facies, diagenesis, and geochemistry of the Eocene Green River Formation carbonates in the Piceance Creek Basin, Colorado (Advisor: Dr. J. Frederick "Rick" Sarg)*

### **Padjadjaran University | Jawa Barat, Indonesia**

B.E. in Geology Engineering | cum Laude, February 2005

## EXPERIENCE

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### **Senior Research Petroleum Geologist**, January 2018 - Present

Oklahoma Geological Survey, Norman, Oklahoma, U.S.A.

- Conduct investigations of petroleum-producing areas in Oklahoma through data acquisition, management, and analysis.
- Serve the people of Oklahoma by providing information and technical assistance to operators, consultants, and the public through workshops, reports, and publications.
- Conduct petrophysical analyses of multiple Oklahoma formations.
- Pursue research on the automation of geological interpretation of core lithofacies.
- Investigate the provenance of Mississippian silt-size quartz in the Anadarko Basin.
- Evaluate the sequence stratigraphy of Mississippian strata in the Anadarko Basin.
- Conduct detailed core analysis, correlation, and subsurface mapping of the Hoxbar Group in the Anadarko Basin.

### **Petrophysicist (Consultant)**, January 2017 – February 2017

Madagascar Oil Company – P.T. Sumber Geoteknik, Jakarta, Indonesia

- Conducted petrophysical analysis of heavy oil reservoirs in the Tsimiroro oil field.

### **Research / Teaching Assistant**, August 2014 – December 2018

Reservoir Characterization and Modeling Laboratory (RCML) and

School of Geosciences, University of Oklahoma, U.S.A.

- Investigated lithofacies and stratigraphic control on pore architecture of the Mississippian limestone and chert reservoirs, northern Oklahoma.
- Investigated lithofacies and diagenetic control of reservoir quality of the Mississippian strata in the Anadarko Basin, central Oklahoma.
- Conducted petrophysical analysis, rock typing, and modeling of the Mississippian strata in the Anadarko Basin, central Oklahoma.
- Teaching Assistant for *Petrophysics* and *Reservoir Characterization and Modeling*.

### **Wellsite Geologist (Consultant)**, June 2014 – July 2014

Murphy Oil Corporation, Indonesia

- Involved in drilling 2 exploration wells in offshore Papua, Indonesia for Mesozoic sandstone reservoirs.
- Analyzed, evaluated, and described formations while drilling using cuttings, gas, formation

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evaluation measurement while drilling, and wireline data.

- Supervised formation evaluation contractors (mudlogging, MWD/LWD, and wireline logging).
- Compared data gathered during drilling with pre-drill prognoses and updated correlations onsite.
- Kept detailed records, prepared reports, completed daily, weekly, and post-drilling report logs.
- Kept drilling superintendents and operations geologists informed regarding all formation evaluation operations.
- Short-term consulting position before leaving to pursue Ph.D. degree in U.S.A.

## **Operations Geologist / Petrophysicist (Consultant),** January 2013 – June 2014

Petrofac Malaysia Limited, Malaysia

- Optimized well placement to develop a mature field of PM304 block.
- Conducted petrophysical analysis of clastic reservoirs to determine porosity, permeability, and fluid saturation.
- Conducted reservoir connectivity and fluid distribution analysis to determine reservoir compartmentalization.
- Planned drilling program, casing design, BHA selection, drilling fluid optimization, completion strategy, and well testing objective with drilling and completion engineers.
- Prepared geological well prognoses, formation evaluation program, integrated pore pressure prediction, and shallow hazard site investigation for appraisal and development wells.
- Planned, supervised, and quality controlled formation evaluation data acquisition including wireline and MWD/LWD logs, mud log, core measurements (routine and SCAL), formation pressure measurements (including fluid sampling and LFA).
- Resigned to pursue Ph.D. degree in U.S.A.

## **Geoscientist / Petrophysicist / Operations Geologist,** March 2007 – December 2012

ExxonMobil Exploration Company, Indonesia

- Involved in several projects: Makassar Strait Deep Water - Indonesia, Cepu Carbonate - Indonesia, Coal Bed Methane - Indonesia, Block 15 Kissanje - Angola, and La Barge - U.S.A.
- Conducted subsurface geological mapping to generate accurate exploration plays and prospects.
- Integrated geological, geophysical, and engineering data to establish the best plan of development (POD) for the Cepu field.
- Performed open- and cased-hole log interpretation (exploration, appraisal, and development wells).
- Involved in fast drilling borehole management.
- Experience in: clay reactivity measurement (DCM), real time pore pressure hunting, gas-while-drilling analysis, coring operation, open and cased hole wireline logging, pipe-conveyed-logging, logging-while-fishing, MWD/LWD operation, pressure test and live fluid analysis, witness and QC data (logs, pressure, directional, mudlog, and gas data), wireline retrievable coring, coring on the fly, managed pressure drilling (mud-cap drilling), and core description.

## **MWD / LWD Field Professional,** October 2005 – February 2007

Halliburton Sperry Sun Drilling Services, Jakarta, Indonesia

- Involved in drilling oil and gas wells (vertical, deviated, and horizontal) for several clients including Medco Indonesia, Medco Maeco Langsa, EMP, Total Indonesia, ConocoPhillips, and Chevron Geothermal.
- Assembled Halliburton Sperry-Sun MWD/LWD tools (positive pulse, negative pulse, and electromagnetic telemetry) for transmitting subsurface data, pressure while drilling tool, density tool, neutron tool, sonic tool, resistivity, and gamma ray tools.
- Assisted directional drillers in drilling deviated/horizontal wells (geo-steering).
- QA/QC LWD and MWD logs and directional survey data.
- Generated daily and end-of-well reports.

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## **Geologist Intern**, September 2004 – October 2004

BP Indonesia, Jakarta, Indonesia

- Evaluated sequence stratigraphy of Talang Akar Formation using seismic, well-log, and core data.

## **Geologist Intern and Lab Technician**, June 2003 – October 2005

Corelab Indonesia, Jakarta, Indonesia

- Loaded biostratigraphic data (Foraminifera, Calcareous Nano-plankton, Pollen, Spore, etc.) into Stratabug.
- Performed core handling, preparation, preservation, and photography.
- Acquired core gamma log.
- Conducted routine core analysis.
- Quantitatively analyzed samples for palynofacies analysis.

## **PROFESSIONAL AFFILIATIONS**

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- Society of Petrophysicists and Well Log Analysts (SPWLA)
- Association of American Petroleum Geologists (AAPG)
- Society of Exploration Geophysicists (SEG)
- Oklahoma City Geological Society (OCGS)
- International Association of Mathematical Geosciences (IAMG)

## **RESEARCH**

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### **Publications**

#### Peer-reviewed Articles

De Lima, R.P., **F. Suriamin**, K. J. Marfurt, M. J. Pranter, 2019, Convolution Neural Networks as aid in core lithofacies classification, *Interpretation*, v. 7, no. 3, p. SF27–SF40.

**Suriamin, F.**, M. J. Pranter, 2018, Stratigraphic and lithofacies control on pore characteristics of Mississippian limestone and chert reservoirs of north-central Oklahoma, *Interpretation*, v. 6, no. 4, p. T1001 – T1022.

Sarg J. F., **Suriamin**, K. Tanavsuu-Milkeviciene, J. D. Humphrey, 2013, Lithofacies, stable isotope, and stratigraphic evolution of microbial and associated carbonates, Green River Formation (Eocene), Piceance Basin, Colorado: *AAPG Bulletin*, v. 9, p.1937-1966.

#### Conference Papers

De Man E., A. Gantyno, **Suriamin Huang**, K. Petersen, E. Saferi, R. Widiarti, S. Wertanen, S. Rahardjanto, 2012, CBM Operational lessons learned – Barito Basin, Indonesia. The 36<sup>th</sup> IPA Annual Convention and Exhibition, Jakarta.

De Man E., F. Ashby, J. Bacheller, A. B. Cahyono, J. Corthay, P. Hillock, **Suriamin**, S. Wilmot, 2011, Deep-water site investigation – Makassar Straits (Indonesia). The 35<sup>th</sup> IPA Annual Convention and Exhibition, Jakarta.

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## Conference Abstracts

**Suriamin, F.**, M. J. Pranter, 2017, Lithofacies and pore-structure characterization of the Mid-Continent Mississippian limestone and chert reservoirs, Grant County, Oklahoma, AAPG – Mid Continent Section Meeting, Oklahoma.

**Suriamin, F.**, M. J. Pranter, 2017, Stratigraphic and facies control on porosity and pore types of Mississippian limestone and chert reservoirs: an example from north-central Oklahoma, AAPG – Mid-Continent Section Meeting, Oklahoma.

**Suriamin, F.**, M. J. Pranter, 2017, Petrophysical properties from quantitative multiscale pore-structure characterization in an unconventional carbonate reservoir: an example from the Mid-Continent Mississippian Limestone, AAPG Annual Convention and Exhibition, Houston.

**Suriamin, F.**, M. J. Pranter, 2016, Investigation of petrophysical-property heterogeneity for electrofacies classification in carbonate reservoirs. AAPG Annual Convention and Exhibition, Calgary.

**Suriamin, F.**, M. J. Pranter, 2015, Integrating standard petrophysical analysis with statistical measures of petrophysical heterogeneity to estimate petrofacies in Mississippian carbonates, north – central Oklahoma, AAPG – Mid Continent Section Meeting, Tulsa.

**Suriamin, J. F.** Sarg, K. Tanavsuu-Milkeviciene, 2011, Lacustrine carbonate and evaporites – facies evolution and diagenesis: Eocene Green River Formation, Piceance Creek Basin, Colorado. AAPG Annual Convention and Exhibition, Houston.

Sarg J. F., K. Tanavsuu-Milkeviciene, F. JuFang, **Suriamin**, 2011, Climate history, lake evolution, and predicting organic richness of the Green River Formation, Piceance Creek Basin, Colorado. 31<sup>st</sup> Oil Shale Symposium, Golden, Colorado.

## Invited Talks

- “Introduction to Well Coring”, Tulsa Rock and Mineral Society, July 2018
- “An Overview of Coal Bed Methane”, Padjadjaran University, AAPG Student Chapter, Feb 2012

## **Grants**

### Research Grants Funded as PI or Co-PI

- Field evaluation of the Caney Shale as an emerging unconventional play, southern Oklahoma. Funded by DOE – National Energy Technology Laboratory (DE-FOA-0001990) from 01/2020 – 01/2021. (\$ 154,433 subcontract to Fnu Suriamin, Abbas Seyedolali, and Brian Cardott).
- Zircon provenance of Meramec silt-size quartz. Funded by Warwick Energy Resources from 11/2019. (\$ 4,500 to Fnu Suriamin).

### Student Research Grants

- Robert K. Goldhammer Fellowship for Technical Excellence (\$ 2,000) 08/2019
- IAMG Computer and Geoscience Research Grant (\$ 2,500) 09/2017
- SPWLA Petrophysical Research Grant (\$ 1,000) 08/2015

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- AAPG Jon R. Withrow Named Grant (\$ 1,000) 08/2015
- AAPG Gene P. Morrell Memorial Scholarship (\$ 1,000) 08/2015
- Harold Kleen Memorial Endowed Fellowship (\$ 1,500) 08/2014
- ExxonMobil Indonesia Geosciences Scholarship (\$ 150,000) 08/2007
- Yayasan Wijaya Scholarship (\$ 600) 05/1996

## In-Kind Contributions

- Acquired ~\$300,000 in software (Geolog and Wellcad) for Mewbourne College of Earth and Energy at the University of Oklahoma.

## TEACHING

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**Mentor**, University of Oklahoma, 2014 - present

- Assist students in core description, petrophysics, and machine learning

### **Lecturer**

*Subsurface Methods*, University of Oklahoma, Fall 2016

- Introduced principles of logging tools
- Introduced basic well-log interpretation methods

*Introduction to Geology*, University of Oklahoma, Spring 2015

- Provided an introduction to geological sciences
- Addressed mineral and rock identification, origin of continents, geologic mapping, plate tectonics, erosion by rivers and glaciers, and history of life

### **Teaching Assistant**

*Petrophysics*, University of Oklahoma, Spring 2015

- Assisted students with petrophysical analyses using Interactive Petrophysics software

*Reservoir Characterization and Modeling*, University of Oklahoma, Spring 2015

- Mentored students with reservoir characterization and modeling concepts and methods

*Biostratigraphy*, Padjadjaran University, Indonesia, Spring 2003

- Guided students to identify planktonic and benthic foraminifera

### **Instructor**

*Petrology*, Padjadjaran University, Indonesia, Fall 2002

- Addressed the core concepts of mineralogy and petrology, including crystal structure, formation and grouping of minerals and soils, definition, origin, structure and classification of igneous, sedimentary and metamorphic rocks

## SERVICE

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### *Professional Society Service*

01/2018-Present      Manuscript Reviewer for *Interpretation, Journal of Marine and Petroleum Geology, Energies, Applied Sciences*.

05/2018-05/2018      Session Reviewer, AAPG Annual Meeting, Salt Lake City, Utah

09/2015-09/2015      Session Reviewer, AAPG Mid-Continent Section Meeting, Tulsa, Oklahoma

### *Departmental Service - Oklahoma Geological Survey*

01/2019-Present      Conference Chair, 2020 Shale Resource Plays of Oklahoma Workshop, Oklahoma Geological Survey

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01/2019-11/2019	Committee Member, 2019 Hoxbar Workshop, Oklahoma Geological Survey
01/2018-10/2018	Conference Chair, 2018 STACK Play Workshop, Oklahoma Geological Survey
01/2018-05/2018	Search Committee Member, Junior Research Geologist – Petroleum Search Committee, Oklahoma Geological Survey

## University-Level Service – University of Oklahoma

01/2018 – Present	Outreach Lecturer, OU Big Event, MacArthur Middle School, Martin Park Nature Center
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## SOFTWARE SKILLS

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Geolog, Interactive Petrophysics, Petrel, Petra, Wellcad, GEO for Windows, Gravitas – Winlog, Drillwork – Predict, Rstudio.

## PROFESSIONAL DEVELOPMENT

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- *Rock physics and quantitative interpretation (QI)*, Oklahoma, U.S.A. | 2020
- *Petrophysics for Unconventional Reservoirs*, Oklahoma, U.S.A. | 2017
- *Evaluating Oklahoma Unconventional Reservoir: Assessing the Reservoir Rock and Fluid Properties using Traditional Logging Suites*, Oklahoma, U.S.A | 2015
- *Carbonate Depositional Model*, Oklahoma, U.S.A. | 2015
- *Old Well Logs Analysis*, Oklahoma City, U.S.A | 2015
- *Multimin Analysis*, Kuala Lumpur, Malaysia | 2013
- *Horizontal Tools Resistivity Modeling (HTRM)*, ExxonMobil, U.S.A. | 2012
- *Advanced Formation Evaluation Seminar*, ExxonMobil, U.S.A. | 2012
- *Fundamentals of Structural Trap and Seal*, Jakarta, Indonesia | 2012
- *Basic Applied Geomechanics (GMI)*, Jakarta, Indonesia | 2011
- *Wellcad Software Training*, Jakarta, Indonesia | 2011
- *Coal Bed Methane Workshop*, Hannover, Germany | 2011
- *Introduction to Geological Operation and Formation Evaluation*, U.S.A. | 2011
- *Bituminous Coal Workshop*, West Virginia, U.S.A. | 2010
- *Modern Carbonate Field Trip*, Heron Island, Australia | 2008
- *VSP Field Training in Cepu Field*, East Java, Indonesia | 2008
- *GEO Software Training (Geologix)*, Jakarta, Indonesia | 2008
- *1-Day Petrel Training* at Colorado School of Mines, Colorado, U.S.A. | 2008
- *Logging While Drilling-I*, Singapore.2006
- *Open hole Log Analysis and Formation Evaluation*, Indonesia | 2006
- *Wireline Logging Interpretation*, Bandung, Indonesia | 2005
- *Petrophysical Analysis using GS software*, Bandung, Indonesia | 2005
- *Wellsite Geology Short Course*, Bandung, Indonesia | 2005
- *Subsurface Mapping*, Bandung, Indonesia | 2005
- *Petrophysical Analysis*, Jakarta, Indonesia | 2004
- *Wireline Logging Interpretation*, Bandung, Indonesia | 2003
- *Geological Field Mapping “Undergraduate research”* | Indonesia |2003
- *Landmark Integrated PC based G&G Solution*, Indonesia | 2002
- *Wellsite Geology “Basic Training”*, Yogyakarta, Indonesia | 2002
- *3D, 4D, VSP and Wireline Logging Data Acquisition*, Malang, Indonesia | 2001

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## AWARDS & HONORS

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- Energy Mineral Division – AAPG Award for Excellence in Presentation, U.S.A. 2013
- Phi Beta Delta Award for International Student Achievement, U.S.A. 2009
- The School Delegation to Indonesia's Mathematics Olympiad, Indonesia. 1999
- The School Delegation to Indonesia's Computer Olympiad, Indonesia. 1998
- Winner of Writing Competition, Indonesia. 1996
- Winner of Natural Science Competition, Indonesia. 1993