

KANNIPA MOTANATED

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ACADEMIC RANK

Assistant Professor

EDUCATION

Texas A&M University, College Station, TX, USA

Doctor of Philosophy in August 2014

Major: Geology

Dissertation Topic: Mechanisms of sedimentation inferred from quantitative characteristics of heavy and light minerals sorting and abundance

Colorado School of Mines, Golden, CO, USA

Bachelor of Science in May 2008

Major: Geological Engineering—Mineral and Petroleum Exploration

Academic degree honor: Magna Cum Lauda

TEACHING COURSES AT CHIANG MAI UNIVERSITY

From 2014 - recently

- GEOL 100 Earth and Its Geological Processes
- GEOL 103 Physical Geology
- GEOL 216 Practice Field Geology
- GEOL 275 Geology for Engineers
- GEOL 310 Regional Field Geology
- GEOL 464 Petroleum Geology
- GEOL 475 Engineering Geology
- GEOL 761 Advanced Sedimentology (international program)
- GEOL 764 Advanced Stratigraphy (international program)
- GEOL 765 Petroleum System (international program)

EXAMPLES OF PUBLICATIONS

- Motanated, K. and Tice, M. M., 2016, Hydraulic evolution of high-density turbidity currents from the Brushy Canyon Formation, Eddy County, New Mexico inferred by comparison to settling and sorting experiments, *Sedimentary Geology*, 337, 69-80.
- Motanated, K. and Tice, M. M., 2016, Siltstone geochemical compositions: applications for event size and correlation, *International Journal of Geosciences*, 7, 189-199.
- Moonpa, K. and Motanated, K., 2018, Basin classification and tectonic framework of the Nam Pat Group, Uttaradit Province, Thailand: implications for the Nan Suture Zone, *Heliyon*, 4, e00517.
<http://doi.org/10.1016/j.heliyon.2018.e00517>
- Moonpa, K. and Motanated, K., 2019, Sedimentological study of bivalve fossils site locality in Hong Hoi Formation, Lampang, Thailand. *International Journal of Geological and Environmental Engineering*, 13(10), 618-623.
doi.org/10.5281/zenodo.3566341
- Motanated, K., Eardkeaw, N. and Photee, P., 2019, Principal component analysis of geological and tunnel boring machine parameters in hard rock (Thailand), *Advances in Science, Technology and Innovation (in-press)*.

EXAMPLES OF PUBLISHED PROCEEDINGS

- Motanated, K., 2016. Flow visualization and modeling for education and outreach in low-income countries. *American Geophysical Union, 2016 Fall Meeting, California, USA, December 12-16, 2016, Article # 154692*
- Moonpa, K. and Motanated, K., 2017, Sedimentary facies and petrographic study of the Nam Pat Group, southeastern Sirikit dam, Uttaradit province. *The 6th*

*International Graduate Research Conference 2017, Chiang Mai, Thailand,
February 9-10, 2017*

- Itsarapong, K. and Motanated, K., 2019, Petrography of clastic rocks of Mae Tha Group, Eastern Chiang Mai Basin. *The 10th International Science, Social Science, Engineering and Energy Conference 2019 (I-SEEC 2019), Sakon Nakhon, November 20-23, 2019*

RECENT RESEARCH PROJECTS (Principal Investigator)

- Grain size and geochemical signatures of turbidites: an implication for massive sandstone reservoir analysis
- Automatic grain size determination from digital images of sedimentary rock thin-sections: an implication for permeability calculation
- การสำรวจศึกษาด้านธรณีฟิสิกส์และวิศวกรรมธรณี เพื่อกำหนดแนวทางอนุรักษ์แหล่งซากดึกดำบรรพ์หอยขม เหมือนแม่เมาะ จังหวัดลำปาง

ADVISED GRADUATE RESEARCHES

- Moonpa, K. and Motanated, K., 2017, Sedimentary facies analysis and evolution of Nam Pat Group, Nam Pat District, Uttaradit Province
- Itsarapong, K. and Motanated, K., 2019, Stratigraphy and paleoenvironment of Mae Tha Group, eastern Chiang Mai basin

EXAMPLES OF ADVISED UNDERGRADUATE INDEPENDENT RESEARCHES

- Kamin, K., 2019, Rock fracture detection from photographic images by MATLAB and determination of rock joints via mobile phone application
- Yamkleeb, K., 2019, Analysis of soil engineering properties and slope stability at Mae Na Chon Nuea Temple, Tambon Mae Na Chon, Mae Cham District, Chiang Mai Province

- Chaisri, N., 2017, Slope stability analysis at new road cut to Mae Ngad-Mae Kuang water diversion tunnel project, Tambon Luang Nua, Doi Saket District, Chiang Mai Province
- Ketsuwan, N., 2017, Rock slope stability analysis at kilometer 0+500 to 1+050 road to the outlet work of Mae Kuang Udom Thara Dam, Doi Saket District, Chiang Mai Province
- Panbua, J. 2017, Slope stability analysis in landslide hazard area at kilometer 1, Rural Road 4051, Tambon Mae Raem, Mae Rim District, Chiang Mai Province
- Ratworawong, K., 2017, Slope failure analysis at kilometer 26, Highway 1256, Doi Phu Kha National Park, Tambon Doi Phu Kha, Pua District, Nan Province
- Prangsrirat, R., 2016, Slope stability analysis in landslide risk area at Highway No. 1269, kilometer 22+100, Ban Pong Sub district, Hang Dong District, Chiang Mai Province
- Thanasaksukthawee, W., 2016, Slope stability analysis of landslide prone area at Chom Phra Sub district, Tha Wang Pha District, Nan Province