DIANA KRUPNIK

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EDUCATION

University of Houston

PhD in Geology   **2018**

Courses: Carbonate Sedimentology, Remote Sensing, Organic Geochemistry, LiDAR Systems and Applications, Sequence Stratigraphy, Chemostratigraphy, Advanced Structural Geology

Thesis: Application of Close-Range Hyperspectral and Terrestrial LiDAR Scanning for Outcrop Characterization

B.S. Honors in Geology   **2014**

Courses: Introduction to Geographic Information Systems (GIS), Structural Geology, Field Geology, Sedimentary Petrogenesis, Stratigraphy, Introduction to Geophysics, Mineralogy, Petrography, Geologic Field Methods, Paleobiology, Igneous and Metamorphic Petrogenesis

Honors Thesis: Hydrocarbon microseepage and geobotanical anomalies

B.S. in Biology   **2012**

Courses: Organic Chemistry I & II, Physical Chemistry, Biochemistry, Microbiology, Human Physiology, Cell Biology, Endocrinology, Ecology, Statistics for the Sciences

Minor: Chemistry

EXPERIENCE

University of Houston

Teaching Assistant   **August 2014 - present**

Teach geoscience laboratory courses:

Paleobiology   Fall 2014, 2015

Introduction to GIS   Spring 2015, 2016

Field Geology   Summer 2015, 2016

Certified Translators and Interpreters

Independent Contractor   **September 2013 – August 2014**

Translated for Russian – speaking patients at various doctor appointments.

University of Houston

Undergraduate Research Assistant   **May 2013 – August 2014** Assisted with geophysical surveys, contributed to website design and maintenance, analyzed remote sensing data, and assisted with environmental science field camp.

University of Houston

Field Technician   **May 2012 – August 2012**

Set up field and laboratory experiments to study the formation of tidal creeks in South Atlantic salt marshes, entered data into excel spreadsheets.

MD Anderson Cancer Center

Summer Student   **May 2009 – August 2009**

Collected and organized patient information and samples for study, processed patient blood samples, assayed patient samples using ELISA, produced figures which summarized experimental results.

TECHNICAL SKILLS

Software:

ESRI ArcGIS, ENVI, Matlab, RiSCAN Pro, Adobe Photoshop and Illustrator, Canvas, Microsoft Office

Geophysical Equipment:

Riegl VZ-400 Terrestrial Laser Scanner, GSSI Ground Penetrating Radar using SIR-3000 and SIR 4000 data acquisition systems, GSSI Electromagnetic Profiler-400 (EMP-400), Trimble GPS

Water Testing Equipment

HACH DR/890 Colorimeter; HQd Portable Meter with pH, Luminescent Dissolved Oxygen, and Conductivity probes; Geopacks Stream Flowmeter

FIELD EXPERIENCE

University of Houston

Geophysics Field Camp   **May 2016**

Teaching assistant teaching geophysics field camp by setting up and conducting surveys using Ground Penetrating Radar and Electromagnetic Induction. Instructed students on processing and interpretation of collected datasets.

Field Geology: Montana and Wyoming   **June 2015 – July 2015; June 2016-July 2016**

Teaching assistant for field geology courses. This included geologic mapping projects and cross section constructions in several locations in Montana and Wyoming.

Gulf Association of Geological Societies Field Course   **September 20, 2015**

As a teaching assistant, demonstrated the utility of Ground Penetrating Radar and Electromagnetic Induction for the study of active faults in the Houston area.

Field Data Collection: Northern Arkansas   **March 2015**

Assisted with collection of ground based remote sensing data as well as structural measurements and observations.

Environmental Science Field Camp   **August 2014**

Assisted with teaching environmental science field course which involved water testing, electromagnetic induction, and ground penetrating radar.

ExxonMobil Field Course: El Paso, TX   **March 2014 – April 2014**

Analysis of hydrocarbon play, field sequence stratigraphic interpretation, detailed rock description.

Field Data Collection: Cement, Oklahoma   **October 2013**

Assisted with collection of ground based remote sensing data.

Geologic Mapping: Big Bend National Park, TX   **March 2014 and March 2013**

Geologic mapping and cross section construction.

PUBLICATIONS AND PRESENTATIONS

Krupnik, D., Khan, S., & Okyay, U.H., P. (2016). Study of diagenetic features in Upper Albian rudist buildups of the Edwards Formation using ground-based hyperspectral imaging and terrestrial laser scanning. International Journal of Applied Earth Observation and Geoinformation (In Review)

Krupnik, D., Khan, S., Okyay, U., Hartzell, P., Biber, K. (2015). Study of Diagenetic Features in Rudist Buildups of Cretaceous Edwards Formation Using Ground Based Hyperspectral Scanning and Terrestrial LiDAR. In, *AGU Fall Meeting*. San Francisco, CA

Krupnik, D., & Khan, S. (2014). Hydrocarbon Microseepage and Geobotanical Anomalies. In, *AAPG Annual Convention and Exhibition*. Houston, TX: AAPG Datapages

Sivina, M., Hartmann, E., Kipps, T.J., Rassenti, L., **Krupnik, D.**, Lerner, S., LaPushin, R., Xiao, L., Huang, X., Werner, L., Neuberg, D., Kantarjian, H., O'Brien, S., Wierda, W.G., Keating, M.J., Rosenwald, A., & Burger, J.A. (2011). CCL3 (MIP-1α) plasma levels and the risk for disease progression in chronic lymphocytic leukemia. *Blood, 117*, 1662- 1669

LANGUAGES

English - native

Russian - native

Spanish –intermediate

AWARDS

Graduate Teaching Fellowship   **August 2014 – May 2018**

Murdock Scholarship   **August 2014 – May 2015**

Jane Bartush Field Camp Scholarship   **June 2014 – July 2014**

Chevron Outstanding Achievement in Geology Award   **August 2013 – May 2014**

University of Houston Academic Excellence Scholarship   **August 2008 – May 2012**