

Guinevere McDaid

Professional Summary

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Professional Preparation

Academic Background

Master of Science, Geography, Texas State University, San Marcos, Texas, August 2013

Bachelor of Science, Geography and Anthropology, Texas State University, San Marcos, Texas, August 2011

Professional Appointments

Present Position: Research Scientist Associate III, Bureau of Economic Geology, The University of Texas at Austin (May 2014 - Present).

Teaching Assistant, Texas State University (2012 - 2013). GEO 3303 3310 - Urban Geography and Economic Geography; collaborated with professor on exam development and production; met with students for assignment consultation regularly; organized grade books for over 200 students each semester.

Lab Instructor, Texas State University (2011 - 2013). GEO 4412 - Advanced Remote Sensing; provided weekly lab instruction to supplement knowledge outcome of lecture material; communicated complex topics related to GIS and remote sensing applications; held office hours, graded, and provided feedback to all labs weekly.

Environmental Science Associate, City of Austin Watershed Protection Department (2013). Excavation of city-owned caves for the purpose of education and/or aquifer recharge; survey and mapping of new cave passage; water sample collection associated with dye tracing procedures..

Research Assistant, Texas State University (2011 - 2012). Classified imagery for statewide land cover classification project funded by the Texas Commission on Environmental Quality; extensive use of ArcGIS and multiple remote sensing software programs; performed land cover classifications for major metropolitan areas in Texas; collected field data to use in quality assurance/quality control protocols; created weekly progress reports that documented techniques and parameters of the classification process.

Areas of Expertise

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ArcGIS for Desktop 10.x, LP360 for ArcGIS Desktop, LAStools, MARS Explorer (LIDAR processing), FUSION (LIDAR processing), ENVI EX 4.8, ERDAS IMAGINE 2011, Adobe Illustrator CS5, Adobe InDesign CS5, AutoCAD 2013 (introductory), Python (introductory), Microsoft Office suite 2010, SPSS 16.0

Microsoft Office Suite 2013, ArcMap 10.3.1

Service

External Committees Participation

Vice President, ASPRS Texas State University Student Chapter, , San Marcos, Texas, January, 2012 - 2013

Outreach Activities

Wildlife rehabilitator: Wildlife Rescue, Inc., January 2006-Present.

Presentations

Presentations

Insights from Midland Basin High-Performing Wells: presented at Tight Oil Resource Assessment Industrial Associates, Fall 2020 Annual Meeting, Virtually through the Bureau of Economic Geology, November 18, 2020.

Geologic Variability and Well Productivity in U.S. Oil Plays: The Efficiency of Completion Intensity and New Designs in Various Geologic Contexts: presented at Society of Petroleum Engineers/American Association of Petroleum Geologists/Society of Exploration of Geophysicists Unconventional Resources Technology Conference, virtual, July 2020.

New Engineering and Geologic Parameters to Predict Infill Well Performance in the Wolfcamp of the Delaware Basin: presented at Society of Petroleum Engineers/American Association of Petroleum Geologists/Society of Exploration of Geophysicists Unconventional Resources Technology Conference, online, July 2020.

Analysis of Top Permian Producing Wells: presented at Tight Oil Resource Assessment Research Consortium Spring Meeting, Virtually through the Bureau of Economic Geology, May 28, 2020.

Variability of Geologic Properties in Shale Gas and Tight Oil Plays: presented at Gulf Coast Association of Geological Societies, Houston, Tex., October 2019.

Stratigraphic and Facies Architecture of the Delaware Mountain Group, Delaware Basin: Implications for Disposal of Hydraulic Fracturing Wastewater: presented at American Association of Petroleum Geologists Annual Convention & Exhibition, San Antonio, Tex., May 2019.

Activities of a Professional Nature

Professional Societies

American Society of Photogrammetry and Remote Sensing (ASPRS)

Austin Wildlife Rescue

Bat Conservation International

Publications

Peer Reviewed Journal Articles

Smye, K., Banerji, D. A., Eastwood, R., McDaid, G., and Hennings, P., 2021, Lithology and reservoir properties of the Delaware Mountain Group of the Delaware Basin and implications for saltwater disposal and induced seismicity: Journal of Sedimentary Research, v. 91, no. 11, p. 1113-1132, <http://doi.org/10.2110/jsr.2020.134>.

Gherabati, S. A., Hamlin, H. S., Smye, K. M., Eastwood, R. L., Male, F. R., and McDaid, G., 2019, Evaluating hydrocarbon-in-place and recovery factor in a hybrid petroleum system: case of Bakken and Three Forks in North Dakota: Interpretation, v. 7, no. 3, p. T607-T624, <http://doi.org/10.1190/INT-2018-0213.1>.

Lemons, C. R., McDaid, G., Smye, K. G., Acevedo, J. P., Hennings, P. H., Banerji, D. A., and Scanlon, B. R., 2019, Spatiotemporal and stratigraphic trends in salt-water disposal practices of

the Permian Basin, Texas and New Mexico, United States: *Environmental Geosciences*, v. 26, no. 4, p. 107-124, <http://doi.org/10.1306/eg.06201919002>.

Smye, K. M., Hamlin, H. S., Eastwood, R., and McDaid, G., 2019, Variability of geologic properties in shale gas and tight oil plays: *GCAGS Journal*, v. 8, p. 191-209.

Smye, K. M., Lemons, C. R., Eastwood, R., McDaid, G., and Hennings, P. H., 2019, Stratigraphic architecture and petrophysical characterization of formations for deep disposal in the Fort Worth Basin, Texas: *Interpretation*, v. 7, no. 4, p. SL1-SL17, <http://doi.org/10.1190/INT-2018-0195.1>.

Wolaver, B. D., Pierre, J. P., Ikonnikova, S., Andrews, J. R., McDaid, G., Ryberg, W. A., Hibbitts, T. J., Duran, C. M., Labay, B. J., and LaDuc, T. J., 2018, An improved approach for forecasting ecological impacts from future drilling in unconventional shale oil and gas plays: *Environmental Management*, v. 62, no. 2, p. 323-333, <http://doi.org/10.1007/s00267-018-1042-5>.

Ikonnikova, S., Male, F., Scanlon, B. R., Reedy, R. C., and McDaid, G., 2017, Projecting the water footprint associated with shale resource production: Eagle Ford Shale case study: *Environmental Science and Technology*, v. 51, no. 24, p. 14453-14461, <http://doi.org/10.1021/acs.est.7b03150>.

Lambert, J., Loucks, R. G., and McDaid, G., 2017, Three-dimensional characterization of cave networks using photogrammetry: example from Longhorn Cavern, Central Texas: *GCAGS Journal*, v. 6, p. 63-72.

Gherabati, A., Browning, J., Male, F., Ikonnikova, S., and McDaid, G., 2016, The impact of pressure and fluid property variation on well performance of liquid-rich Eagle Ford shale: *Journal of Natural Gas Science and Engineering*, v. 33, p. 1056-1068, <http://doi.org/10.1016/j.jngse.2016.06.019>.

Hammes, U., Eastwood, R., McDaid, G., Vankov, E., Gherabati, A., Smye, K. G., Shultz, J., Potter, E., Ikonnikova, S., and Tinker, S. W., 2016, Regional assessment of the Eagle Ford Group of South Texas, USA: insights from lithology, pore volume, water saturation, organic richness, and productivity correlations: *Interpretation*, v. 4, no. 1, p. SC125-SC150, <http://doi.org/10.1190/INT-2015-0099.1>.

Non Peer Reviewed Journal Articles

Gherabati, S. A., Smye, K. M., McDaid, G., and Hamlin, S., 2020, New engineering and geologic parameters to predict infill well performance in the Wolfcamp of the Delaware Basin: *Society of Petroleum Engineers/American Association of Petroleum Geologists/Society of Exploration Geophysicists, Proceedings, Unconventional Resources Technology Conference*, Austin, Tex., July 20-22, no. 3077, 13 p., <http://doi.org/10.15530/urtec-2020-3077>.

Ikonnikova, S., Yang, Q., Smye, K., and McDaid, G., 2020, Revisiting production outlooks of the Eagle Ford and Bakken plays: analysis of the well productivity and play economics changes over the last 5 years: *Society of Petroleum Engineers/American Association of Petroleum Geologists/Society of Exploration Geophysicists, Proceedings, Unconventional Resources Technology Conference*, Austin, Tex., July 20-22, no. 3029, 9 p., <http://doi.org/10.15530/urtec-2020-3029>.

Smye, K. M., Ikonnikova, S., Yang, Q., McDaid, G., and Goodman, E., 2020, Geologic variability and well productivity in U.S. oil plays: the efficiency of completion intensity and new designs in various geologic contexts: *Society of Petroleum Engineers/American Association of Petroleum Geologists/Society of Exploration Geophysicists, Proceedings, Unconventional Resources Technology Conference*, Austin, Tex., July 20-22, no. 3317, 10 p., <http://doi.org/10.15530/urtec-2020-3317>.

Conference Proceedings

Gherabati, A., Male, F., Hamlin, H. S., Smye, K. G., Walsh, M., Ikonnikova, S., McDaid, G., and

Lemons, C., 2017, Evaluating hydrocarbon-in-place and recovery factor in a hybrid petroleum system: case of Bakken and Three Forks in North Dakota, Unconventional Resources Technology (URTeC) Conference, Austin, Tex., 24-26 July, 15 p.

Hamlin, H. S., Smye, K. G., Dommissie, R., Lemons, C., McDaid, G., and Eastwood, R., 2017, Geology and petrophysics of the Bakken Unconventional Petroleum System, Unconventional Resources Technology (URTeC) Conference, Austin, Tex., 24-26 July, 14 p.

Contract Reports

LaDuc, T. J., Wolaver, B. D., Pierre, J. P., Duran, C. M., Labay, B. J., Ryberg, W. A., Hibbitts, T. J., Roelke, C. E., Fujita, M. K., Wright, I. M., Surya, G. S., Shank, C. J., Andrews, J. R., Ikonnikova, S., and McDaid, G., 2018, Final Report: Collaborative Research on the Natural History of the Enigmatic Spot-Tailed Earless Lizard (*Holbrookia lacerata*) in Texas: The University of Texas at Austin (<http://dx.doi.org/10.18738/T8/C1C7X7>), contract report prepared for Texas Comptroller of Public Accounts, under contract no. 14-000769, 259 p.

Published Abstracts

del Carpio Neyra, V., Ikonnikova, S., Gherabati, A., and McDaid, G., 2019, Delaware Basin well economics (ext. abs.): Tight Oil Resource Assessment (TORA) Research Consortium Annual Meeting, p. 68-73.

Smye, K. G., Banerji, D., Hamlin, H. S., Eastwood, R. L., Lemons, C., McDaid, G., and Hennings, P., 2019, Stratigraphic and facies architecture of the Delaware Mountain Group, Delaware Basin: implications for disposal of hydraulic fracturing wastewater (abs.): AAPG Annual Convention & Exhibition, San Antonio, Tex., 19-22 May.