

Teal B. Wyckoff, MSc, GISP
Curriculum Vitae, March 2019

Research Scientist, Assoc., University of Wyoming
Wyoming Geographic Information Science Center
Phone: 307.766.2213

1000 East University Avenue
Laramie, WY 82071
Email: wyckoff@uwyo.edu

EDUCATION

- 2017 [Master of Science \(M.Sc.\), Zoology & Physiology, Wyoming Cooperative Fish & Wildlife Research Unit, University of Wyoming, Laramie, Wyoming.](#)
- 2014 GISP Certification, GIS Certification Institute.
- 2007 Bachelor of Science (B.Sc.) dual major Geography (Physical) and Environment and Natural Resources, University of Wyoming, Laramie, Wyoming. *Magna Cum Laude, Top 25 Outstanding Graduates of the Year.*
- 2004 Associate of Arts (A.A.), General Studies, Northampton Community College, Bethlehem, Pennsylvania.
Distinguished Alumni Award, November 16, 2017.

ACADEMIC POSITIONS

- 2014 – present [Associate Research Scientist, WyGIS, University of Wyoming, Laramie, WY.](#)
- 2009 – 2014 Assistant Research Scientist, Web Coordinator, Data Manager, WyGIS, University of Wyoming, Laramie, WY.
- 2008 – 2009 Research Assoc., WyGIS, University of Wyoming, Laramie, WY.

OTHER RELEVANT ACADEMIC POSITIONS

- 2006 – 2008 GIS Technician, Wyoming Geographic Information Science Center, University of Wyoming, Laramie, WY.
- 2007 Principal Investigator, Wyoming NASA Space Grant Consortium Fellowship for Undergraduate Research, University of Wyoming, Laramie, WY.
- 2006 – 2007 GIS Technician, EPSCoR Fellowship for Undergraduate Research/Ruckelshaus Institute of Environment and Natural Resources/Spatial Analysis of Watershed & Landscape Systems Group, University of Wyoming, Laramie, WY.
- 2005 – 2007 Geochronology Laboratory Research Assistant, Department of Geology and Geophysics, University of Wyoming, Laramie, WY.

CURRENT JOB DESCRIPTION

60%	20%	20%
Project management, technical coordination, collaborator coordination, communications	Web development, content management system and IT admin	Data/metadata/service and ArcGIS enterprise architecture design

PUBLICATIONS IN PROGRESS

In Preparation:

Wyckoff, T.B., E.O. Aikens, H. Sawyer, and M.J. Kauffman. Evaluating the influence of energy development on the ability of mule deer to track phenology.

PUBLISHED WORKS

Refereed Journal Articles:

Wyckoff, T.B., H. Sawyer, S.E. Albeke, S.L. Garman and M.J. Kauffman. 2018. Evaluating the Influence of Development on Ungulate Migrations. *Ecosphere*, 9 (2): e02113. DOI: [10.1002/ecs2.2113](https://doi.org/10.1002/ecs2.2113)

Sawyer, H., M.J. Kauffman, A.D. Middleton, T.A. Morrison, R.M. Nielson, & **T.B. Wyckoff**. 2013. A framework for understanding semi-permeable barrier effects on migratory ungulates. *Journal of Applied Ecology*, 50 (1): 68-78. DOI: [10.1111/1365-2664.12013](https://doi.org/10.1111/1365-2664.12013)

Hamerlinck, J.D., **T.B. Wyckoff**, J.R. Oakleaf, & P.L. Polzer. 2010. Cyberinfrastructure for collaborative geologic carbon sequestration research: a conceptual model. *Rocky Mountain Geology* (1555-7332), 45 (2): 163-180. DOI: [10.2113/gsrocky.45.2.163](https://doi.org/10.2113/gsrocky.45.2.163)

Smith, M.S., S. Sharma, **T.B. Wyckoff**, & C.D. Frost. 2010. Baseline geochemical characterization of potential receiving reservoirs for carbon dioxide in the Greater Green River Basin, Wyoming. *Rocky Mountain Geology* (1555-7332), 45 (2): 93-111. DOI: [10.2113/gsrocky.45.2.93](https://doi.org/10.2113/gsrocky.45.2.93)

CONTRACTS & GRANTS

Funded Projects as CoPI:

- 2018 – 2020 Natural Resource and Energy Explorer (NREX) Stewardship. J.D. Hamerlinck, **T.B. Wyckoff**, Wyoming Business Council, \$121,000. <https://nrex.wyo.gov>
- 2019 Wyoming Integrated Spatial Database & Online Management System (WISDOM) Stewardship. T.B. Wyckoff, J.D. Hamerlinck, Wyoming Game and Fish Department, 20,000.
- 2019 Wyoming Migration Initiative Data Viewer Stewardship. T.B. Wyckoff, S.Albeke. Wyoming Game and Fish Department, \$5,000. <https://migrationinitiative.org/dataviewer>
- 2018 – 2019 SuiteWater Phase IV. **T.B. Wyckoff**, J.D. Hamerlinck, Wyoming Association of Conservation Districts, \$53,000. <https://suitewater.wygisc.org>
- 2017 - 2019 Wyoming Geospatial Hub. P. Hodza, T.B. Wyckoff, Wyoming Office of the Governor, \$213,000. Geospatialhub.org

- 2017 – 2021 Oregon Compliance Assistant (ORCA). J.D. Hamerlinck, **T.B. Wyckoff**, Natural Resources Conservation Service, \$232,000.
- 2017 – 2018 Wyoming Public Lands Initiative Story Map Design and Development. J.D. Hamerlinck, **T.B. Wyckoff**. Wyoming County Commissioners Association, \$29,000. <https://wcca.wygisc.org/wpli/homepage>
- 2016 – 2020 Integrated Resource Management Analyst (IRMA) Wyoming Rewrite. J.D. Hamerlinck, **T.B. Wyckoff**, Natural Resources Conservation Service, \$112,000. <https://irma-wy.wygisc.org>
- 2016 – 2018 Natural Resource and Energy Explorer (NREX) software application stewardship. J.D. Hamerlinck, **T.B. Wyckoff**. Wyoming Business Council, \$121,000. <https://nrex.wyo.gov>, <https://vimeo.com/wygisc/nrex-introduction>
- 2016 – 2018 SWAP Data Integration: NREX and WISDOM. **T.B. Wyckoff**. Wyoming Game and Fish Department, \$26,000. <https://swap.wygisc.org>
- 2016 – 2017 Integrated Resource Management Analyst (IRMA) Wyoming: Stewardship. J.D. Hamerlinck, **T.B. Wyckoff**, Natural Resources Conservation Service, \$4,500. <https://irma-wy.wygisc.org>
- 2016 – 2017 SuiteWater Phase III. **T.B. Wyckoff**, J.D. Hamerlinck, Wyoming Association of Conservation Districts, \$83,000. <https://suitewater.wygisc.org>
- 2014 – 2015 Amphibian Database. S.E. Albeke, **T.B. Wyckoff**, University of Wyoming Biodiversity Institute and Wyoming Natural Diversity Database, 21,000. <https://www.wyobiodiversity.org/Initiatives-Programs/CitSci/rocky-mountain-amphibian-project>
- 2013 – 2015 Wyoming Biodiversity Citizen Science Initiative. **T.B. Wyckoff**, S.E. Albeke. University of Wyoming Biodiversity Institute, \$200,000. <https://wyobio.org>
- 2012 – 2018 Evaluating the Influence of Development on Ungulate Migrations, **T.B. Wyckoff**, M.J. Kauffman. Wyoming Game and Fish Department, \$89,00. <http://wyocoopunit.org/projects/evaluating-influence-development-mule-deer-migrations-project>
- 2012 – 2013 SuiteWater Phase II: Online Spatial Decision Support System Application. J.D. Hamerlinck, **T.B. Wyckoff**, P.L. Polzer. Wyoming Association of Conservation Districts, \$29,000. <https://suitewater.wygisc.org>
- 2011 – 2012 Wyoming Update for PAD-US. U.S. Geological Survey, GAP Analysis Program: Protected Areas Database of the US. **T.B. Wyckoff**, J.D. Hamerlinck. U.S. Geological Survey PAD-US Program, \$21,000.
- 2011 – 2012 Evaluating the Influence of Development on Ungulate Migrations: Education and Outreach. **T.B. Wyckoff**, M.J. Kauffman. Wyoming Wildlife: The Foundation, \$13,000. <https://wyocoopunit.org/projects/evaluating-influence-development-mule-deer-migrations-project>
- 2007 – 2008 Sagebrush Community Structure Characterization for Improved Remotely Sensed Imagery Utilization in the Laramie Basin, Wyoming. **T.B. Wyckoff**, S.D. Prager, K.L. Driese. Wyoming NASA (National Aeronautical and Space Administration) Space Grant Consortium, Undergraduate Research Fellowship, \$8,000.

2006 – 2007 Coalbed Natural Gas Produced Water Evaluation: Powder River Basin, WY. **T.B. Wyckoff**, S.N. Miller. Wyoming EPSCoR (Experimental Program to Stimulate Competitive Research) Undergraduate Research Fellowship \$3,000.

Current Submitted Proposals as CoPI:

2019 – 2020 Wyoming Statewide Broadband Program, Mapping Initiative. **T.B. Wyckoff**, J.D. Hamerlinck. Wyoming Business Council. www.wyobbmap.org

PROFESSIONAL AFFILIATIONS AND ACTIVITIES – MEMBERSHIP

2017 – present Wyoming Technical Advisory Group (TAG) Voting Member
2016 – present Ecological Society of America (ESA)
2015 – present The American Association for the Advancement of Science (AAAS)
2014 – present Urban and Regional Information Systems Association (URISA)
2014 – present The Wildlife Society (TWS) National
2011 – present The Wildlife Society (TWS) Wyoming Chapter
2011 – present Wyoming Geospatial Organization (WyGEO)
2006 – present Association of American Geographers (AAG)

PAPERS PRESENTED/SYMPOSIA/INVITED LECTURES/PROFESSIONAL PRESENTATIONS/WORKSHOPS (* - indicates presenting author(s))

Oral Presentations:

Rudd, W.*, **T.B. Wyckoff***. 2018. The Wyoming Migration Initiative Migration Viewer: An Archive and Online Tool for Viewing Wyoming's Ungulate GPS, VHF, and WGFD Habitat Data. Wyoming Chapter of the Wildlife Society and Wyoming Landscape Conservation Initiative Joint Annual Meeting, Laramie, Wyoming. November 14, 2018.

Wyckoff, T.B.* 2018. Spatial Resources for Planners: Wyoming Geospatial Hub and the Natural Resource and Energy Explorer Tool. Wyoming Geospatial Organization and Wyoming Planners Association Joint Annual Conference. Douglas, WY. October 17-19, 2018.

Rudd, W.*, S.E. Albeke, **T.B. Wyckoff**, M.J. Kauffman. 2018. The Wyoming Migration Initiative Migration Viewer: An Archive and Online Tool for Viewing Wyoming's Ungulate GPS, VHF, and WGFD Habitat Data. Tracking the Human Footprint – 14th Biennial Scientific Conference on the Greater Yellowstone Ecosystem, Big Sky, Montana. September 11-14, 2018.

Wyckoff, T.B.* 2018. Natural Resource and Energy Explorer Introduction and Demonstration. Riverton Economic Community Development Association, Riverton, Wyoming. June 27, 2018.

Wyckoff, T.B.* 2018. Natural Resource and Energy Explorer and Wyoming Geographic Information Science Center Introduction. Broadband Advisory Council Kickoff Meeting, Riverton, Wyoming. June 26, 2018.

- Wyckoff, T.B.*** 2018. Natural Resource and Energy Explorer and Wyoming Geographic Information Science Center Introduction. Mineral, Business and Economic Development Legislative Sub-Committee, Gillette, Wyoming. May 31, 2018.
- Wyckoff, T.B.*** 2018. SuiteWater: Development of an online geospatial watershed planning tool. Elevations Geospatial Summit, Hosted by WyGEO and WYCO, Saratoga, Wyoming. May 3, 2018.
- Wyckoff, T.B.*** The Natural Resource and Energy Explorer and the Wyoming Geospatial Hub. Wyoming Water Association Annual Conference and Education Session. Sheridan, Wyoming. October 26, 2017.
- Wyckoff, T.B.*** The Natural Resource and Energy Explorer. Rocky Mountain Petroleum User Group and the Wyoming Geospatial Organization Joint Annual Conference. Casper, Wyoming. October 25, 2017.
- Wyckoff, T.B.*** Natural Resource and Energy Explorer. New Energy and Technology Panel, Wyoming Energy Summit. Cheyenne, Wyoming, May 18, 2017.
- Wyckoff, T.B.*** Natural Resource and Energy Explorer. Wyoming Geospatial Organization (WyGEO). Rock Springs, Wyoming, April 18, 2017.
- Wyckoff, T.B.*** and J.D. Hamerlinck. Wyoming Public Lands Initiative Information Hub. Wyoming Public Lands Initiative - Lander 2: Putting WPLI Into Practice. Lander, Wyoming, March 23, 2017.
- Wyckoff, T.B.*** and J.D. Hamerlinck. Wyoming Public Lands Initiative Resource Explorer. Wyoming Public Lands Initiative - Lander 2: Putting WPLI Into Practice. Lander, Wyoming, March 23, 2017.
- Wyckoff, T.B.*** and D. Tuthill*. 2016. WyoBio Citizen Science Program as a Platform for Innovative Programming, Database Design and Longevity of Data. Wyoming Citizen Science Conference. Lander, Wyoming, December 1-2, 2016.
- Wyckoff, T.B.***, J.M. McKay* and B.J. Writer. 2016. SuiteWater III. Wyoming Association of Conservation Districts Annual Convention. Riverton, Wyoming, November 15-17, 2016.
- Wyckoff, T.B.***, H. Sawyer, M.J. Kauffman, S.E. Albeke. 2016. Evaluating the influence of development on mule deer migration and phenology tracking. The Wildlife Society Wyoming Chapter, Society for Range Management, Wyoming Section Joint Annual Conference. Cody, Wyoming, November 15-17, 2016.
- Wyckoff, T.B.*** Introduction to the Natural Resource and Energy Explorer (NREX) and the Wyoming Geospatial Hub (GeoHub). Wyoming Habitat Restoration Workshop Hosted by the Wyoming Restoration and Reclamation Center and the UW School of Energy Resources. Casper, Wyoming. September 8-9, 2016.
- Hamerlinck, J.D., **T.B. Wyckoff***, P.L. Polzer, N. Cole. 2016. Natural Resource and Energy Explorer (NREX). Wyoming Infrastructure Authority Winter Conference hosted by the WIA Board of Directors. Cheyenne, Wyoming. February 18, 2016.
- Polzer, P.L., J.D. Hamerlinck, **T.B. Wyckoff***, M. Flanderka, N. Cole. 2015. Natural Resource and Energy Explorer (NREX): The Next Generation of GIS-Based Planning Support Tools for Wyoming's Resources. Wyoming Landscape Conservation Initiative/Wyoming Chapter of the Wildlife Society Joint Meeting. Lander, Wyoming. December 1, 2015.
- Wyckoff, T.B.***, M.J. Kauffman, H. Sawyer, S.E. Albeke and S.L. Garman. 2015. Evaluating the Influence of Development on Mule Deer Migrations. Wyoming Landscape

Conservation Initiative, The Wildlife Society Wyoming Chapter Joint Meeting. Lander, Wyoming, December 3, 2015.

Wyckoff, T.B.*. 2015. Evaluating the Influence of Development on Mule Deer Migrations. WyGIS Seminar Series. Laramie, Wyoming, October 23, 2015.

Wyckoff, T.B.*, M.J. Kauffman, H. Sawyer, S.E. Albeke and S.L. Garman. 2015. Evaluating the Influence of Development on Ungulate Migrations. The Wildlife Society Annual Conference. Winnipeg, Manitoba, October 21, 2015.

Wyckoff, T.B.* and J.D. Hamerlinck*.2015. Natural Resource and Energy Explorer. Wyoming Association of County Officers: County Assessors Breakout Session. Laramie, Wyoming. September 23, 2015.

Wyckoff, T.B.*. 2015. Connecting Citizens with Ecosystems: Wyoming Biodiversity Citizen Science Initiative (WyoBio). Citizens + Science = Innovative Insights, ESRI for Policy and Government Webinar Series. September 23, 2015.

Wyckoff, T.B.*. 2015. Identifying Threshold Levels of Development that Impede Wyoming Ungulate Migrations. Annual Wyoming Cooperative Fish and Wildlife Unit Partners Meeting. Cheyenne, Wyoming, April 20, 2015.

Wyckoff, T.B.*, B.W. Marsicek, and D. Tuthill. 2015. WyoBio citizen science program as a platform for innovative programming, database design and longevity of data. Citizen Science 2015 – Inaugural Conference of the Citizen Science Association. San Jose, California February 11-12, 2015.

Wyckoff, T.B.*. 2014. Keeping up with technology: the new WyoBio mapping application and the road ahead for WyGIS. WyGIS Geospatial Speaker Series Fall 2014. Laramie, Wyoming, October 24, 2014.

Marsicek, B.W.*, **T.B. Wyckoff***. 2014. WyoBio: The Wyoming Biodiversity Citizen Science Initiative. eVolution: Technology in Education Conference. Laramie, Wyoming, September 20, 2014.

Wyckoff, T.B.* and B.J. Writer*. 2014. WyoBio: The Wyoming Biodiversity Citizen Science Initiative Mapping Application. WyGEO 2014 Annual Conference. Lander, Wyoming, August 18-19, 2014.

Wyckoff, T.B.*. 2014. Identifying Threshold Levels of Development that Impede Wyoming Ungulate Migrations. Annual Wyoming Cooperative Fish and Wildlife Unit Partners Meeting. Laramie, Wyoming, April 24, 2014.

Wyckoff, T.B.*, M.J. Kauffman, H. Sawyer, and S.E. Albeke. 2013. Evaluating the Influence of Development on Mule Deer Migrations. Annual Wyoming Cooperative Fish and Wildlife Partners Meeting. Cheyenne, Wyoming, October 23, 2013.

Wyckoff, T.B.*, M.J. Kauffman, H. Sawyer, S.E. Albeke. 2013. Evaluating the Influence of Development on Mule Deer Migrations. The Wildlife Society Wyoming Chapter Annual Meeting. Rock Springs, Wyoming, October 29-31, 2013.

Wyckoff, T.B.*, P.L. Polzer, J.D. Hamerlinck, and K. Nordyke. 2013. Using “WISDOM” To Support Wildlife Decision Making in Wyoming via Web-Based GIS Technology: The Wyoming Interagency Spatial Database & Online Management System. The Wildlife Society Wyoming Chapter Annual Meeting. Rock Springs, Wyoming, October 29-31, 2013.

- Marsicek, B.W.* , D. Tuthill*, and **T.B. Wyckoff.***. 2013. WyoBio: A Citizen Science Project for Wyoming Biodiversity. 11th Annual Math and Science Teachers' Conference. Casper, Wyoming, October 18-19, 2013.
- Marsicek, B. W.* , D. Tuthill*, and **T.B. Wyckoff.***. 2013. WyoBio: A Citizen Science Project for Wyoming Biodiversity. After School Alliance Annual Meeting. Laramie, Wyoming, October 14-15, 2013.
- Albeke, S.E.* , A.D. Middleton, J.D. Jones and **T.B. Wyckoff**. 2013. A day in the life of an Ecoinformaticist. Wyoming Geographic Information Science Center Geospatial Forum, University of Wyoming, Laramie, Wyoming, October 4, 2013.
- Wyckoff, T.B.***, M.J. Kauffman, H. Sawyer, S.E. Albeke. 2013. Evaluating the Influence of Development on Mule Deer Migrations. 1st Annual Geospatial Conference of the West. Laramie, Wyoming, September 16-19, 2013.
- Wyckoff, T.B.***, B.J. Writer and S.E. Albeke. 2013. Wyoming Biodiversity Citizen Science Initiative (WyoBio): Developing a Citizen Science Application for Wyoming. 1st Annual Geospatial Conference of the West. Laramie, Wyoming, September 16-19, 2013.
- Wyckoff, T.B.***, M.J. Kauffman, H. Sawyer, S.E. Albeke. 2012. Evaluating the Influence of Development on Mule Deer Migrations. The Wildlife Society Wyoming Chapter Annual Meeting. Laramie, Wyoming, November 13, 2012.
- Houts, M.* , J. Pierce, **T. Wyckoff**, A. Messer, D. Theobald, P. Comer, J. Mikolajczyk. 2012. Using ArcGIS Explorer to Conduct Remote Field Work for Analysis of Landscape Integrity Models. Society for Conservation GIS, 15th Annual Conference. Monterey, California, July 16, 2012.
- Wyckoff, T.B.***, P.L. Polzer, M. Berendsen, J.D. Hamerlinck, K. Nordyke. 2012. The Wyoming Interagency Spatial Database & Online Management System. Wyoming Geospatial Organization 1st Annual Conference. Cheyenne, Wyoming, August 8, 2012.
- Wyckoff, T.B.***, M.J. Kauffman, H. Sawyer, S. Garman, J. McBeth. Evaluating the Influence of Development on Ungulate Migrations. Wyoming Landscape Conservation Initiative Science Workshop. Rock Springs, Wyoming, May 14-16, 2012.
- Wyckoff, T.B.***, P.L. Polzer, J.D. Hamerlinck, N. Cole, C. Rosenthal. 2012. SuiteWater: The Natural Resources Planning and Analysis Tool. Wyoming Landscape Conservation Initiative Science Workshop. Rock Springs, Wyoming, May 14-16, 2012.
- Hamerlinck, J.D.* , P.L. Polzer, **T.B. Wyckoff**, K. Nordyke. 2012. The Wyoming Interagency Spatial Database & Online Management System: Building "WISDOM" to support Wildlife Decision Making Via Web-based GIS Technology. Wyoming Landscape Conservation Initiative Science Workshop. Rock Springs, Wyoming, May 14-16, 2012.
- Polzer, P.L.* , J.D. Hamerlinck, **T.B. Wyckoff**. 2012. Wyoming Integrated Resource Management Analyst. Wyoming Landscape Conservation Initiative Science Workshop. Rock Springs, Wyoming, May 14-16, 2012.
- Nordyke, K., P.L. Polzer, J.R. Oakleaf, **T.B. Wyckoff***. 2011. Building "WISDOM" to Support Wildlife Decision Making in Wyoming Via Web-based GIS Technology: Overview of the Wyoming Interagency Spatial Database & Online Management System (WISDOM) Environmental Assessment Support Tool (EAST). The Wildlife Society Wyoming Chapter Annual Meeting. Jackson, Wyoming, December 8, 2011.

- Hamerlinck, J.D., J.R. Oakleaf, P.L. Polzer, and **T.B. Wyckoff***. Developing a Cyberinfrastructure for Collaborative Carbon Sequestration Research at the University of Wyoming, Mid-Year Update. Wyoming Carbon Underground Storage Project (WY-CUSP) University of Wyoming Carbon Sequestration Meeting. Laramie, Wyoming, March 26, 2009.
- Smith, M.S.*, S. Sharma, C.D. Frost, **T.B. Wyckoff**. 2009. Baseline Geochemical Characterization. Wyoming Carbon Underground Storage Project (WY-CUSP) University of Wyoming Carbon Sequestration Meeting. Laramie, Wyoming, March 26, 2009.
- Wyckoff, T.B.***, S.D. Prager, and K.L. Driese. 2008. Assessing Moderate Resolution Remote Sensing to Characterize Sagebrush Structure. Talk Presented at the 17th William T. Pecora Memorial Remote Sensing Symposium. Denver, Colorado, November 16-20, 2008.
- Wyckoff, T.B.*** 2008. Introduction to the Wyoming GeoLibrary. Technical Workshop. Southwest GIS Users Group Annual Meeting. Laramie, Wyoming October 22-24, 2008.
- Wyckoff, T.B.*** 2008. Wyoming Data Resources Technical Session. Moderated Session: Southwest GIS Users Group Annual Meeting. Laramie, Wyoming. Laramie, Wyoming October 22-24, 2008.
- Miller, S.N.*, **T.B. Wyckoff**, and E. L. Bishop. 2008. Spatial and Temporal Analyses of Coalbed Natural Gas and Co-Produced Water in the Powder River Basin, Wyoming. American Water Resources Association Spring Specialty Conference GIS and Water Resources V. San Mateo, California, March 17-19, 2008.
- Wyckoff, T.B.***, S.D. Prager, and K.L. Driese. 2007. Sagebrush Community Structure Characterization for Improved Remotely Sensed Imagery Use in the Laramie Basin, Wyoming. Association of American Geographers Regional Conference. Denver, Colorado, October 7, 2011.

Other Meetings/Proceedings – Verbal Presentations, Demonstrations, Training’s Conducted:

- Wyckoff, T.B.*** 2019. Wyoming Broadband Program Mapping Update. Wyoming Broadband Advisory Council Meeting, Cheyenne, Wyoming. February 26, 2019.
- Wyckoff, T.B.*** 2018. Wyoming Broadband Program Mapping Update. Wyoming Broadband Advisory Council Meeting, Casper, Wyoming. December 20, 2018.
- Wyckoff, T.B.*** 2018. Wyoming Broadband Program Mapping Update. Wyoming Broadband Advisory Council Meeting, Casper, Wyoming. October 11, 2018.
- Wyckoff, T.B.*** 2018. Wyoming Broadband Program Mapping Update. Wyoming Broadband Advisory Council Meeting, Lander, Wyoming. August 23, 2018.
- Wyckoff, T.B.*** 2018. Wyoming Broadband Program Mapping Update. Wyoming Broadband Advisory Council Meeting, Cheyenne, Wyoming. July 31, 2018.
- Wyckoff, T.B.*** 2018. Natural Resource and Energy Explorer Information Update. Wyoming Energy Summit, Hosted by the Wyoming Infrastructure Authority, Laramie, Wyoming. April 4, 2018.
- Wyckoff, T.B.***, K. Rogers* and C. Kopplin*. 2018. GIS Governance Summary and Status Update. Wyoming GIS Advisory Board, Cheyenne, Wyoming. March 20, 2018.
- Wyckoff, T.B.*** 2018. Natural Resource and Energy Explorer Training. Wyoming Public Service Commission, Cheyenne, Wyoming. January 5, 2018.

- Hamerlinck, J.D.* and **T.B. Wyckoff*** 2017. Natural Resource and Energy Explorer. Governor Mead Cabinet Meeting. Cheyenne, Wyoming. December 13, 2017.
- Wyckoff, T. B.***, D. Tuthill*. Human Impacts and Maintaining Biodiversity: The Role of Citizen Science. Wyoming Biodiversity Citizen Science Initiative and Mule Deer Migration Joint Presentation. Central High School AP Science. Cheyenne, Wyoming. December 6, 2017.
- Wyckoff, T.B.*** 2017. Natural Resource and Energy Explorer Demo and Exhibit, Wyoming Governor’s Business Forum. Cheyenne, Wyoming. November 7-9, 2017.
- Wyckoff, T.B.*** 2017. Natural Resource and Energy Explorer Demo and Exhibit, Joint Oil and Gas Fair and Enhanced Oil Recovery Institute Conference. Casper, Wyoming. September 13-14, 2017.
- Wyckoff, T.B.*** J.D. Hamerlinck. 2017. Natural Resource and Energy Explorer Training. Wyoming State Parks and Historic Trails – Engineering, GIS and Resource Management Staff. Cheyenne, Wyoming. August 10, 2017.
- Wyckoff, T.B.*** 2017. Red Desert Anthropogenic Influence on Ungulate Migration Ecology. Northern Red Desert EcoFlight, Hosted by the Wyoming Wilderness Association in Partnership with EcoFlight. Lander, Wyoming. June 12, 2017.
- Wyckoff, T.B.*** J.D. Hamerlinck. 2017. Natural Resource and Energy Explorer Training. Cheyenne, Wyoming. May 19, 2017.
- Wyckoff, T.B.*** J.D. Hamerlinck*. 2017. Natural Resource and Energy Explorer Training. Rock Springs, Wyoming. April 19, 2017.
- Wyckoff, T.B.*** J.D. Hamerlinck*. 2017. Natural Resource and Energy Explorer Training. Lander, Wyoming. March 24, 2017.
- Wyckoff, T.B.*** J.D. Hamerlinck. 2016. Natural Resource and Energy Explorer Demonstration. Petroleum Association of Wyoming (Vice President – Public Lands), Anadarko Petroleum Corporation (Regulatory Advisor), Samson Resources (Government Affairs). Laramie, Wyoming. February 11, 2016.
- Hamerlinck, J.D.*, **T.B. Wyckoff***, P.L. Polzer. 2016. Natural Resource and Energy Explorer Demonstration. Wyoming Restoration and Reclamation Center (Dr. Pete Stahl). Laramie, Wyoming. January 22, 2016.
- Hamerlinck, J.D.*, **T.B. Wyckoff***, P.L. Polzer. 2016. Natural Resource and Energy Explorer Demonstration. Office of Governor Matt Mead (Nephi Cole, Policy Advisor) and Crowley Fleck PLLP, Attorneys (Lynne Boomgaarden). Cheyenne, Wyoming. January 13, 2016.
- Hamerlinck, J.D.*, **T.B. Wyckoff***, P.L. Polzer. 2016. The Natural Resource and Energy Explorer, and the Wyoming Geographic Information Science Center. Governor Matthew H. Mead and the Governor’s Policy Office Staff. Cheyenne, Wyoming. December 16, 2016.
- Wyckoff, T.B.*** 2016. Red Desert Ecology. Southern Red Desert EcoFlight, Hosted by the Wyoming Wilderness Association in Partnership with EcoFlight. Rock Springs, Wyoming. September 19, 2016.
- Wyckoff, T.B.***, Hamerlinck, J.D., Polzer, P.L. 2015. Natural Resource and Energy Explorer Demonstration. Wyoming Infrastructure Authority Executive Directory Jason Begger and Aaron Clark. Laramie, Wyoming. December 10, 2015.

- Albeke, S.E. *, P.L. Polzer*, M.E. Brittell, **T.B. Wyckoff***. 2015. Wyoming Migration Initiative, Migration Viewer Demonstrations. Sustaining Big Game Migrations: Emerging Issues Forum. Laramie, Wyoming. November 10, 2015.
- Wyckoff, T.B.*** J.D. Hamerlinck, P.L. Polzer. 2015. Natural Resource and Energy Explorer Demonstration. Energy and Natural Resources Policy Team Meeting. Cheyenne, Wyoming. October 22, 2015.
- Wyckoff, T.B.***, P.L. Polzer*. 2015. Natural Resource and Energy Explorer Demonstration and Feedback Session. NREX Beta Tester and Data Partner Outreach Feedback Group. Webinar, Laramie, Wyoming. October 28, 2015.
- Wyckoff, T.B.***, P.L. Polzer*. 2015. Natural Resource and Energy Explorer Demonstration and Feedback Session. NREX Development Phase 1.0 End User Group. Webinar, Laramie, Wyoming. October 27, 2015.
- Wyckoff, T.B.***, P.L. Polzer*. 2015. Natural Resource and Energy Explorer Demonstration. NREX Development Phase 1.0 End User Group. Webinar, Laramie, Wyoming. October 13, 2015.
- Wyckoff, T.B.***, J.D. Hamerlinck, P.L. Polzer. 2015. Natural Resource and Energy Explorer Demonstration. Wyoming Business Council. Webinar, Laramie, Wyoming. October 12, 2015.
- Wyckoff, T.B.***, J.D. Hamerlinck, P.L. Polzer, K. Rogers*. 2015. Natural Resource and Energy Explorer Demonstration. Bureau of Land Management Wyoming State Office. Webinar, Laramie, Wyoming. October 1, 2015.
- Wyckoff, T.B.***, P.L. Polzer*. 2015. Natural Resource and Energy Explorer Demonstration. NREX Development Phase 1.0 End User Group. Webinar, Laramie, Wyoming. September 30, 2015.
- Wyckoff, T.B.***, P.L. Polzer*. 2015. Natural Resource and Energy Explorer Demonstration. NREX Development Phase 1.0 End User Group. Webinar, Laramie, Wyoming. September 29, 2015.
- Wyckoff, T.B.***, J.D. Hamerlinck, P.L. Polzer, K. Rogers*. 2015. Natural Resource and Energy Explorer Demonstration. Wyoming Stock Growers Association (Jim Magagna, Executive Vice President). Cheyenne, Wyoming. August 7, 2015.
- Wyckoff, T.B.***, J.D. Hamerlinck, P.L. Polzer, K. Rogers*. 2015. Natural Resource and Energy Explorer Demonstration. Wyoming Association of Conservation Districts (Bobbie Frank, Executive Director, Cathy Rosenthal, Watershed Coordinator). Cheyenne, Wyoming. July 30, 2015.
- Wyckoff, T.B.***, J.D. Hamerlinck, P.L. Polzer, K. Rogers*. 2015. Natural Resource and Energy Explorer Demonstration. Wyoming Planning Association. Cheyenne, Wyoming. July 13, 2015.

Poster Presentations:

- Wyckoff, T.B.***, M.J. Kauffman, S.E. Albeke and H. Sawyer. 2014. Identifying Threshold Levels of Development that Impede Mule Deer Migrations. The Wildlife Society Wyoming Chapter and Central Mountains and Plains Section Joint Annual Meeting, Sheridan, Wyoming, August 26-28, 2014.

- Perkins, D.G.*, S.E. Albeke, P.L. Polzer, S.G. Lanning, and **T.B. Wyckoff**. 2013. Standardizing Spatial Animal Movement Data: Leveraging Spatial SQL Data Types, Functions and Software Interoperability. 2013 Geospatial Conference of the West, Laramie, Wyoming, September 16-19, 2013.
- Perkins, D.G.*, S.E. Albeke, P.L. Polzer, S.G. Lanning, and **T.B. Wyckoff**. 2013. Standardizing Spatial Animal Movement Data: Leveraging Spatial SQL Data Types, Functions and Software Interoperability. Rocky Mountain Regional Meeting, Association of American Geographers, Omaha, Nebraska, October 10-13, 2013.
- Polzer, P.L.*, S.G. Lanning, S.E. Albeke, **T.B. Wyckoff**, and Perkins, D.G. 2013. Wildlife Migration Data Viewer: Developing a Web-Application with Multi-Tiered Functionality and Tool Access. 2013 Geospatial Conference of the West, Laramie, Wyoming, September 16-19, 2013.
- Wyckoff, T.B.***, M.J. Kauffman, and S.E. Albeke. 2012. Evaluating the Influence of Development on Mule Deer Migrations. The Wildlife Society National Annual Meeting, Portland, Oregon, October 13-17, 2012.
- Wyckoff, T.B.***, M.J. Kauffman, and S.E. Albeke. 2011. Evaluating the Influence of Development on Ungulate Migrations. The Wildlife Society Wyoming Chapter Annual Meeting, Jackson, Wyoming, December 6-8, 2011.
- Wyckoff, T.B.***, M.J. Kauffman, and S.E. Albeke. 2011. Evaluating the Influence of Development on Ungulate Migrations. The Wildlife Society's 18th Annual National Meeting, Waikoloa, Hawaii, November 5-10, 2011.
- Hamerlinck, J.D.*, **T.B. Wyckoff**, and J.R. Oakleaf. 2010. The Wyoming Energy Resources Information Clearinghouse: Web-based Support for Energy Related Water Resource Management. Poster presented at , Energy Resources and Produced Water Conference, University of Wyoming, Laramie, Wyoming, May 25-26, 2010.
- Hamerlinck, J.D.*, D.G. Hulme, J.R. Oakleaf, **T.B. Wyckoff**. 2009. Wyoming Energy Resources Information Clearinghouse. Western States Energy & Environment Symposium. Jackson Hole, Wyoming, October 25-27, 2009.
- Smith, M.S.*, S. Sharma, C.D. Frost, **T.B. Wyckoff**. 2009. Baseline Geochemical Characterization of Target Receiving Reservoirs for CO₂ in Upper Greater Green River Basin, Wyoming. Geological Society of America Annual Meeting. Portland, Oregon, October 18-21, 2009.
- Hamerlinck, J.D., J.R. Oakleaf, P.L. Polzer, **T.B. Wyckoff***. 2009. Building a Geo-Cyberinfrastructure for Carbon Capture and Sequestration Research. ESRI International Users Conference. San Diego, California, July 13-17 2009.
- Lanning, S.G., J.R. Oakleaf, P.L. Polzer, and **T.B. Wyckoff***. 2009. Wyoming Tourism: From Retro to Forever West, Incorporating GIS into the Redesigned Website. ESRI International Users Conference. San Diego, California, July 13-17 2009.
- Smith, M.S.*, S. Sharma, C.D. Frost, **T.B. Wyckoff**. 2009. Baseline Geochemical Characterization of Target Receiving Reservoirs for CO₂ in Upper Greater Green River Basin, Wyoming. 8th Annual Conference on Carbon Capture & Sequestration. Pittsburgh, Pennsylvania, May 4-7 2009.

- Lanning, S.G. *, J.R. Oakleaf, P.L. Polzer, and **T.B. Wyckoff**. 2008. Wyoming Tourism: From Retro to Forever West, Incorporating GIS into the Redesigned Website. Southwest GIS Users Group Conference. Laramie, Wyoming.
- Bergman, H.L., A.L. Boelter, B.J. Botello, J.D. Hamerlinck*, D.G. Hulme, J.R. Oakleaf, **T.B. Wyckoff**. 2007. Wyoming Energy Resources Information Clearinghouse. Southwest Users Group Conference. Santa Fe, New Mexico.
- Lanning, S.G. *, **T.B. Wyckoff**. 2007. Wyoming Forest Stewardship Spatial Analysis Project. Poster Presented at the Southwest Users Group Conference. Santa Fe, New Mexico.
- Bergman, H.L., A.L. Boelter, B.J. Botello, J.D. Hamerlinck*, D.G. Hulme, J.R. Oakleaf, **T.B. Wyckoff**. 2007. Wyoming Energy Resources Information Clearinghouse. Poster Presented at the ESRI International Users Conference. San Diego, California.
- Lanning, S.G. *, **T.B. Wyckoff**. 2007. Wyoming Forest Stewardship Spatial Analysis Project. Poster Presented at the ESRI International Users Conference. San Diego, California.

Guest Lectures:

- Wyckoff, T.B.***. 2016. Introduction to applied GIS. Class: Remote Sensing.
- Wyckoff, T.B.***. 2011. Inherently Spatial: Significance of Geospatial Components in Research. The Wildlife Society University of Wyoming Student Chapter.
- Wyckoff, T.B.***. 2009. Introduction to Wyoming Geospatial Data Resources. Class: Advanced GIS.
- Wyckoff, T.B.***. 2009. Accessing Wyoming and National-Level Data: Internet Mapping Services, Direct Data Download. Class: Ecoinformatics.

CLASS MENTOR

- 2008 – 2010 ENR 4000/5000: Approaches to Environmental and Natural Resource Problem Solving (3 credits 10% enrollment responsibility)
- 2008 – 2010 ENR 4900/ 5900: Environment Assessment Practice (3 credits, 10% enrollment responsibility)

OUTREACH & SERVICE – UNIVERSITY OF WYOMING

- 2010 National Geographic Society State Geography Bee
- 2008 – present University of Wyoming Colleges and Departments GIS supported/assisted:
- Office of the President
 - Office of Research and Development
 - Program in Ecology
 - Haub School of Environment and Natural Resources
 - Ruckelshaus Institute of Environment and Natural Resources
 - Wyoming Cooperative Fish and Wildlife Research Unit
 - College of Agriculture and Natural Resources: Wyoming Cooperative Extension, Family and Consumer Sciences, Ecosystem Science & Management

College of Business: Management and Marketing

College of Arts and Sciences: Anthropology, Botany, Geography,
Geology, Earth Sciences, Geophysics, Zoology and Physiology

College of Engineering and Applied Science: Atmospheric Science,
Civil Engineering

PROFESSIONAL DEVELOPMENT

ESRI Southwest Users Conference. Denver, CO. March 26-27, 2019.

ESRI Developers Summit. Palm Springs, California. March 3-8, 2019.

CPR Recertification. American Red Cross. Laramie, Wyoming. February 2019.

Umbraco, MVC and Visual Studio - Online training. January 24, 2019.

ESRI Southwest Users Conference. Broomfield, CO. April 10-11, 2018.

ESRI Developers Summit. Palm Springs, California. March 5-10, 2017.

CPR Recertification. American Red Cross. Laramie, Wyoming. February 2017.

ESRI ArcGIS for Server: Site Configuration and Administration. Broomfield, Colorado. August
22-24, 2016.

ESRI Developers Summit. Palm Springs, California. March 6-11, 2016.

Workplace Safety and Responsibility Training. University of Wyoming, Laramie, Wyoming.
August 26, 2016.

URISA Leadership Academy. Denver, Colorado. June 22-26, 2015.

Wilderness First Aid. Laramie, Wyoming. May 2015.

Wildlife Chemical Immobilization. Wyoming/Central Mountains and Plains The Wildlife Society
Joint Meeting, Sheridan, Wyoming, August 26, 2014.

Leadership Seminar. Wyoming/Central Mountains and Plains The Wildlife Society Joint Meeting,
Sheridan, Wyoming, August 26, 2014.

Large Animal Necropsy. Wyoming/Central Mountains and Plains The Wildlife Society Joint
Meeting, Sheridan, Wyoming, August 28, 2014.

Geospatial Modeling of the Environment Workshop. Waikoloa, Hawaii, November, 2011.

Introduction to Geoprocessing Scripts Using Python. ESRI Short Course, Remote Classroom, July,
2010.

Introduction to Programming with ArcObjects. ESRI Short Course, Laramie, Wyoming, June,
2008.

SCHOLASTIC SCHOLARSHIPS AND HONORS

2005 – 2007 **University of Wyoming, Laramie, Wyoming**

Dual major: B.S. Geography, Cumulative GPA 4.0 and

Environment and Natural Resources, Cumulative GPA 3.9

Magna Cum Laude, Top 25 Outstanding Graduates of the Year

2007 – present Phi Beta Kappa Society

- 2006 – present Golden Key International Honour Society
- 2007 – present The Honor Society of Phi Kappa Phi
- 2006 – present Gamma Theta Upsilon International Geographical Honor Society
- 2007 – present The National Scholars Honor Society
- 2008 College of Arts and Sciences Outstanding Graduate of the Year
- 2008 Department of Geography Outstanding Graduate of the Year
- 2006 – 2007 Keith and Thyra Thompson Honor Roll: Outstanding Academic Achievement
- 2006 – 2007 Vice President for Academic Affairs Honor Roll
- 2005 – 2006 President’s Honor Roll
- 2005 – 2007 Western Heritage Scholarship
- 2006 – 2007 Plummer Scholarship in ENR
- 2006 Louise Price Weller Scholarship
- 2006 Frederick E. Clements Scholarship in Ecology
- 2005 Phi Theta Kappa Scholarship

- 2002 – 2004 **Northampton Community College**, Bethlehem, Pennsylvania
- A.A. General Studies, Cumulative GPA 3.9*
- 2017 Distinguished Alumni Award, November 16, 2017
- 2002 – 2004 Dean’s List
- 2003 – 2004 The Alumni Association Scholarship
- 2003 Phi Theta Kappa International Honors Society

- 2000 **National Outdoor Leadership School (NOLS)**, Lander, Wyoming
- 12 Credits University of Utah, Cumulative GPA 3.9*
- 2000 Dean’s List

SELECTED ACADEMIC ACTIVITIES

University of Wyoming

- 2005 – 2007 Gamma Theta Upsilon International Geographical Honor Society
- 2005 – 2007 Geography Club
- 2005 – 2007 Environment and Natural Resources Club
- 2006 – 2007 Phi Beta Kappa Society
- 2006 – 2007 The Honor Society of Phi Kappa Phi
- 2006 – 2007 Campus Sustainability Group, Treasurer
- 2006 – 2007 Green Spot Website – University of Wyoming Sustainability News
- 2006 – 2007 Spatial Analysis of Watershed & Landscape Systems Group (SAWLS)
- 2006 – 2007 Golden Key International Honors Society

2006 – present American Association of Geographers

Northampton Community College

2002 – 2004 Phi Theta Kappa Honor Society, Beta Beta Chi Chapter

2003 – 2005 Vice President and Editor *Amuse*, Literary Magazine

RELEVANT COURSE WORK

Graduate Course Work:

Writing & Review Science, Zoology 5960

Advanced Spatial Statistical Analysis, Ecology 5620

Spatial Analysis in R, Data Management SQL Server, Zoology 5960

Graduate Seminar – Data Analysis and Management, Zoology 5890

Advanced Spatial Analysis and Statistics, Ecology 5620

Hands-on R, Zoology 5890

Statistical Methods in the Biological Sciences, Statistics 5050

Energy and Environment, Environment and Natural Resources 5890

Data Management Techniques, Ecology 5620

Physiology of Starvation, Zoology 5890

Dynamics and Resiliency of Coupled Human-Natural Systems, Geography 5880

Graduate Writing, Zoology/Physiology 5890

Advanced Remote Sensing of the Environment, Geography 5211

Undergraduate Course Work:

Remote Sensing of the Environment, Geography 4111

Seminar, Environment, Ecology & Metaphor, Environment, Natural Resources 3900

Advanced Global Climate Variability, Geography 4880

Field Geology, Geology 3080

Global Environmental Change, Geography 3480

Advanced Geographic Information Systems (II), Geography 4210

Fire Ecology, Geography 4470

Environment and Natural Resources Internship, WyGISC, ENR 4970

Geography Internship, WyGISC, Geography 4870

Risk Analysis, Environment and Natural Resources 4500

Campus Sustainability, Environment and Natural Resources 4890

Map Use and Analysis, Geography 2150

Geographic Information Systems (I), Geography 4200
Soil Geomorphology, Geography 4410
Biogeography, Geography 4460
Conservation of Natural Resources, Geography 4040
Environmental Assessment, Environment and Natural Resources 4900
Agricultural Diversity, American Indian Studies 4546
Environmental Problem Solving, Environment and Natural Resources 3000
Environmental Water Issues, Environment and Natural Resources 3900
Physical Geography, Geography 1010
Human Geography, Geography 1020
Problem Solving, Math 1000
Environmental Problems, Geography 1002
Field Ecology, Ecology 1001
Statistics, Math 2050
Topics in Biology, Biology 1960
Group Leadership Techniques, PRT 2051
Wilderness Skills – Climbing, PRT 2052A
Wilderness Skills – Canoeing, PRT 2052
Environmental Ethics, PRT 2050