

TEXAS STATE VITA**I. Academic/Professional Background****A. Name and Title**

Name: Dr. Jennifer Jensen

Title: Associate Professor

B. Educational Background

<i>Degree</i>	<i>Year</i>	<i>University</i>	<i>Major</i>	<i>Thesis/Dissertation</i>
PHD	2009	University of Idaho	Environmental Science	
MS	2004	University of Idaho	Geography	
BS	2002	University of Idaho	Environmental Science-Biological Science	
AS	1998	College of the Redwoods	Forest Technology	

C. University Experience

<i>Position</i>	<i>University</i>	<i>Comments</i>	<i>Dates</i>
Professor, Dept. of Geography	Texas State University		2021 - Present
Associate Professor, Dept. of Geography	Texas State University		2015 - 2021
Program Faculty, NASA STEM EPDC, MSI Teacher Education Network	LBJ Institute for STEM Education and Research, Texas State University.		2015 - 2018
Assistant Professor, Dept. of Geography	Texas State University		2009 - 2015
Research Assistant, Dept. of Geography	University of Idaho		2005 - 2009
Instructor, GPS/GIS Integration	University of Idaho	Fall 2008	2008
Instructor, Intro. Physical Geography	University of Idaho	Spring 2008	2008

<i>Position</i>	<i>University</i>	<i>Comments</i>	<i>Dates</i>
Research Assistant, Landscape Dynamics Lab, Cooperative Fish & Wildlife Unit	University of Idaho		2004 - 2006
Teaching Assistant, Remote Sensing/GIS Integration	University of Idaho	Spring 2005	2005
Teaching Assistant, Computer-aided Mapping	University of Idaho	Spring 2003	2003
Teaching Assistant, Intro. Physical Geography	University of Idaho		2002 - 2003

D. Relevant Professional Experience

<i>Position</i>	<i>Entity</i>	<i>Comments</i>	<i>Dates</i>
Technician I	Idaho Department of Environmental Quality		2002 - 2004

II. TEACHING

A. Teaching Honors and Awards:

Award / Honor Recipient: Favorite Professor Award, Alfred H. Nolle Chapter of Alpha Chi National Honor Scholarship Society (Texas State University).
2018, 2015, 2012

Award / Honor Recipient: Presidential Distinction Award for Excellence in Teaching, Texas State University.
2015

Award / Honor Recipient: Teaching Excellence, Graduate and Professional Student Organization, University of Idaho.
2009

B. Courses Taught:

Texas State University:

GEO 3313 - NAT RES USE & MGT

GEO 3416 - PRINC REMOTE SENSI

GEO 3416 - PRINCIPLES OF REMOTE SENSING

GEO 3416 - REMOTE SENSING & EARTH OBSERV

GEO 4190 - INDEPENDENT STUDY

GEO 4290 - INDEPENDENT STUDY

GEO 4316 - LANDSCP BIOGEOGPH

GEO 4324 - GPS AND GIS

GEO 4335 - DIR RESEARCH

GEO 4390 - INDEPENDENT STUDY

GEO 4412 - DIGITAL REMOTE SEN

GEO 4412 - DIGITAL REMOTE SENSING

GEO 4412 - IMG PROCESSING & MACHINE LEARN

GEO 4417 - DIGITAL TERRAIN MO

GEO 4424 - GPS AND GIS

GEO 5190 - INDEPENDENT STUDY

GEO 5199B - THESIS

GEO 5324 - GPS AND GIS

GEO 5335 - DIR RESEARCH

GEO 5390 - INDEPENDENT STUDY

GEO 5395 - PROB APPLIED GEO

GEO 5399A - THESIS

GEO 5399B - THESIS

GEO 5415 - GEO APPLS REM SENS

GEO 5424 - GPS AND GIS

GEO 5599B - THESIS

GEO 7190 - INDEPENDENT STUDY

GEO 7199A - DISSERTATION

GEO 7199C - DISSERTATION

GEO 7316 - REMOTE SENSING

GEO 7366 - ADV TOP REMOTE SEN

GEO 7372 - SEM GEO INF SCI

GEO 7390 - INDEPENDENT STUDY

GEO 7393L - LIDAR

GEO 7399A - DISSERTATION

GEO 7399C - DISSERTATION

GEO 7415 - APP OF REMOTE SNSG

GEO 7599C - DISSERTATION

GEO 7699A - DISSERTATION

GEO 7999A - DISSERTATION

GEO 7999C - DISSERTATION

GEO 7999C - DISSERTN GEO GIS

US 1100 - UNIVERSITY SEMINAR

University of Idaho:

GEOG 100: Introduction to Physical Geography

GEOG 404: GPS/GIS Integration

C. Directed Student Learning (i.e. theses, dissertations, exit committees, etc.):

Supervisor / Chair, Master's Thesis, Status: In Progress. (2020 - Present). Geography,
Texas State University.

Student(s): Kevin Colgan, Graduate, M.S. Geography.

Member, Master's Thesis, Status: In Progress. (2020 - Present).

Student(s): Meg Herod, Graduate, MS Aquatic Resources.

- Member, Dissertation, Status: In Progress. (2019 - Present). Biology, Texas State University.
Student(s): Saunders Drukker, Doctoral, Aquatic Resources and Integrated Biology.
- Supervisor / Chair, Master's Thesis, Status: In Progress. (2019 - Present). Geography.
Student(s): Alexa Lopez, Graduate, Master of Science Geography.
- Supervisor / Chair, Master's Thesis, Status: In Progress. (2019 - Present).
Student(s): Amy Jackson, Graduate, Master of Science Geography.
- Supervisor / Chair, Dissertation, Status: In Progress. (2018 - Present). Geography, Texas State University.
Student(s): Andrea Pinon, Doctoral, Ph.D. Geogrpahy.
- Supervisor / Chair, Master's Thesis, Status: In Progress. (2017 - Present).
Student(s): Christine White, Graduate, Master of Science.
- Member, Dissertation, Status: In Progress. (2009 - Present).
Student(s): John Klier, Doctoral, Geographic Information Science.
- Member, Master's Thesis, Status: Completed 2021
Student(s): Charlotte Wilson, Graduate, MS Wildlife Ecology.
- Supervisor / Chair, Dissertation, "Fire Risk, Burn Severity, and Vegetation Recovery for the Berry Fire, Grand Teton National Park", Status: Completed. (2020).
Student(s): David Szpakowski, Doctoral.
[Dissertation Szpakowski-1.pdf](#)
- Member, Applied Research Project, "Assessing the impact of propeller scars on sea grass fragmentation", Status: Completed. (2019). Geography, Texas State University.
Student(s): Benjamin Griffith, Graduate, M.A. Geography.
[DirectedResearch-Griffith-2019.10.07-1.pdf](#)
- Supervisor / Chair, Applied Research Project, "Testing Water Quality from Space: A Comparison between Remote Sensing and in situ Measurements", Status: Completed. (2019). Geography, Texas State University.
Student(s): Hannah Strum, Graduate, MAGEography.
[Hannah Sturm_Final-1.pdf](#)
- Member, Dissertation, "Water in a changing climate: Montana's Flathead Indian Reservation, 1961-2100", Status: Completed. (2019). Geography, Texas State University.
Student(s): Francesco Zignol, Doctoral, Geographic Information Science.
[ZIGNOL-DISSERTATION-2019-1.pdf](#)

- Member, Dissertation, "Predicting Future Range Expansion of Whooping Crane (*Grus americana*) Winter Habitat Using Long-Term Census and Remotely Sensed Data", Status: Completed. (2019). Biology, Texas State University.
Student(s): Nichole Davis, Doctoral, Aquatic Resources.
[DAVIS-DISSERTATION-2019-1.pdf](#)
- Supervisor / Chair, Dissertation, "Studying climate, present glacier landscapes and future lake hazards in Swiss southwestern Alps", Status: Completed. (2019). Geography, Texas State University.
Student(s): Saeideh Gharehchahi, Doctoral, PhD Geographic Information Science.
[Saeideh_Dissertation-1.pdf](#)
- Supervisor / Chair, Dissertation, "A MODIS-based algorithm to detect forest degradation: a case study in Mexico", Status: Completed. (2019). Geography, Texas State University.
Student(s): Yunuen Reygadas Langarica, Doctoral, PhD.
[Reygadas_Dissertation-1.pdf](#)
- Supervisor / Chair, Master's Thesis, "Dune feature extraction using image texture and patch metrics", Status: Completed. (2019). Geography, Texas State University.
Student(s): Brandon Rose, Graduate, Master of Science.
[Rose_Thesis-1.pdf](#)
- Member, Master's Thesis, "A Statistically Designed Karst Feature Survey, and Factors Controlling Karst Feature Density and Distribution", Status: Completed. (2019). Biology, Texas State University.
Student(s): Lorena Martinez, Graduate, MS Aquatic Systems.
[MARTINEZ-THESIS-2019-1.pdf](#)
- Supervisor / Chair, Master's Thesis, "Identifying dune habitat through the use of remote sensing classifications", Status: Completed. (2019).
Student(s): Lucas Chavez, Graduate, Master of Science.
[Chavez_Thesis-1.pdf](#)
- Member, Applied Research Project, "Floodplain Land Cover Classification and Change Detection Analysis for the City of Austin, TX From 2008 to 2016", Status: Completed. (2018). Geography, Texas State University.
Student(s): Mackenzie Carhart, Graduate, MAG Geography.
[Carhart Directed Research-1.pdf](#)
- Supervisor / Chair, Dissertation, Status: Completed. (2018).
Student(s): Chunhong Zhao, Doctoral, GIS.
[ZHAO-DISSERTATION-2018-1.pdf](#)
- Supervisor / Chair, Applied Research Project, "Change Detection of *Juniperus Ashei* at The Freeman Center in the Edwards Plateau, Texas", Status: Completed. (2017).
Student(s): Wesley Collins, Graduate, M.A. Geography.
[WCollins_MAG_paper-1.pdf](#)

Supervisor / Chair, Honor's Thesis, "Spatiotemporal Analysis of Land Cover Change on Bamberger Ranch Preserve in Johnson City, Texas", Status: Completed. (2017).
Geography, Texas State University.

Student(s): Brandon Tober, Undergraduate, B.S. Geography.

[Tober_Brandon_Thesis-1.pdf](#)

Member, Master's Thesis, "Effects of urbanization on the relative abundance of hummingbirds (*Archilochus alexandri* and *archilochus colubris*) as measured by resource removal rates", Status: Completed. (2017).

Student(s): Caley Zulula, Graduate, M.S. Population and Conservation Biology.

[ZUZULA-THESIS-2017-1.pdf](#)

Supervisor / Chair, Master's Thesis, "Developing a Comprehensive Geospatial Database for Freeman Center", Status: Completed. (2017).

Student(s): Jon Wiesner, M.A. Geography.

[jWiesner_Freeman_MAG-1.pdf](#)

Supervisor / Chair, Master's Thesis, "Digital Terrain Modeling: Assessing the Impact of Vegetation on Structure from Motion Accuracy Status", Status: Completed. (2017).

Student(s): Kevin Schilly, Graduate, M.A. Geography.

[Kevin_Schilly_Structure_from_Motion_MAG_Paper_2017-1.pdf](#)

Supervisor / Chair, Master's Thesis, "Quantifying Alligator Gar (*Atractosteus spatula*) Spawning Habitat Suitability on the Lower Trinity River, Texas", Status: Completed. (2017).

Student(s): Killian Sterling, M.S. Geography.

[STERLING-THESIS-2017-1.pdf](#)

Supervisor / Chair, Master's Thesis, "Digital Terrain Model Generation: A Structure from Motion Approach", Status: Completed. (2017).

Student(s): Matthew Washburn, M.S. Geography.

[WASHBURN-THESIS-2017-1.pdf](#)

Member, Applied Research Project, Status: Completed. (2016).

Student(s): Colin Strickland, Graduate, M.A. Geography.

[Strickland_Directed_Research-1.pdf](#)

Supervisor / Chair, Master's Thesis, "Estimating Aboveground Biomass in a Pasture Ecosystem Using Structure-from-Motion Derived Dense Three Dimensional Point Clouds", Status: Completed. (2016).

Student(s): David Szpakowski, M.S. Geography.

[SZPAKOWSKI-THESIS-2016-1.pdf](#)

Supervisor / Chair, Master's Thesis, "SUAS-SFM based Remote Sensing of Rangeland Vegetation: OBIA Segment Classification and Statistical Modeling of Prickly Pear Cacti Structure in Central Texas", Status: Completed. (2016).

Student(s): Ethan Roberts, M.S. Geography.

[ROBERTS-THESIS-2016-1.pdf](#)

Supervisor / Chair, Master's Thesis, "Assessing the Utility of Pixel-based and Object-based Classification Methods for Surveying Wetland Vegetation with an Unmanned Aerial System", Status: Completed. (2016).

Student(s): Nicholas Villarreal, M.S. Geography.

[VILLARREAL-THESIS-2016-1.pdf](#)

Member, Master's Thesis, Status: Completed. (2016).

Student(s): Sarah E. Crouchet, Graduate, M.S. Population and Conservation Biology.

[CROUCHET-THESIS-2016-1.pdf](#)

Member, Master's Thesis, Status: Completed. (2015).

Student(s): Derek Wallace, Graduate, M.S. Biology.

[WALLACE-THESIS-2015-1.pdf](#)

Member, Applied Research Project, Status: Completed. (2014).

Student(s): Kristina Tolman, Graduate, M.A. Geography.

Supervisor / Chair, Applied Research Project, "Habitat Use and Modeling of the American Black Bear (*Ursus americanus*)", Status: Completed. (2014).

Student(s): Melanie Delion, M.A. Geography.

Member, Applied Research Project, Status: Completed. (2014).

Student(s): Philip Woodworth, Graduate, M.A. Geography.

Supervisor / Chair, Dissertation, "Assessing Grapevine Canopy Health in the Texas Hill Country with Remote Sensing and GIS Techniques", Status: Completed. (2014).

Student(s): Adam Mathews, Doctoral, GIS.

[MATHEWS-DISSERTATION-2014-1.pdf](#)

Member, Dissertation, Status: Completed. (2014).

Student(s): Naizhuo Zhao, Doctoral, Geographic Information Science.

Supervisor / Chair, Master's Thesis, "Land Cover Change in a Texas Town in the Booming Eagle Ford Shale", Status: Completed. (2014).

Student(s): Elizabeth Lipps, M.A. Geography.

Member, Master's Thesis, Status: Completed. (2014).

Student(s): Laura Clark, Graduate, M.S. Sustainability Studies.

[CLARK-THESIS-2014-1.pdf](#)

Member, Master's Thesis, Status: Completed. (2014).

Student(s): Matthew Haverland, Graduate, M.S. Biology.

Member, Graduate Committee Service, Status: Completed. (2014).

Student(s): Victoria Stengel, Graduate, M.S. Geography.

Supervisor / Chair, Applied Research Project, "Lidar-based Detection Between Land Cover Classifications of Shrubland and Forest", Status: Completed. (2013).
Student(s): Sandra Irvin, M.A.Geography.

Supervisor / Chair, Master's Thesis, "Improving Urban Vegetation Classification Accuracy with Multispectral Imagery and Lidar", Status: Completed. (2013).
Student(s): Guinevere McDaid, M.S. Geography.

Supervisor / Chair, Master's Thesis, "Modeling of Urban Growth and Land Cover Change: An Implementation of the SLEUTH Model for San Marcos, Texas", Status: Completed. (2013).
Student(s): Justin McCreight, M.S. Geography.

Member, Graduate Committee Service, Status: Completed. (2013).
Student(s): Richard Lee, Graduate, M.A.Geography.

Member, Graduate Committee Service, Status: Completed. (2012).
Student(s): Clint Harper, Graduate, M.A.Geography.

Member, Graduate Committee Service, Status: Completed. (2012).
Student(s): Desserae Shepston, Doctoral, Environmental Geography.

Member, Graduate Committee Service, Status: Completed. (2012).
Student(s): Jiao Wang, Doctoral, Geographic Information Science.

Supervisor / Chair, Master's Thesis, "Assessment of Spatial and Temporal Lake Water Quality Trends and Effects of Land Use/Land Cover in Maine", Status: Completed. (2012).
Student(s): Brittany Courville, M.S. Geography.

Supervisor / Chair, Master's Thesis, "Evaluation of White-tailed Deer Response to Precipitation and Vegetation in McMullen County, Texas.", Status: Completed. (2012).
Student(s): Clinton Edwards, M.S. Geography.

Supervisor / Chair, Master's Thesis, "Small Area Population Estimation Using Lidar-based Datasets", Status: Completed. (2012).
Student(s): Greg Mavian, M.A.Geography.

Supervisor / Chair, Master's Thesis, "Identification of Potential Habitat for the Concho Water Snake (*Neroida paucimaculata*)", Status: Completed. (2012).
Student(s): Megan Zoch, M.A.Geography.

Supervisor / Chair, Master's Thesis, "Using Cost Surface Analysis and Least Cost Paths to Analyze Dispersal of Gray Wolves in the Northern Rockies, U.S.A.", Status: Completed. (2012).
Student(s): Paul Crossley, M.S. Geography.

Member, Graduate Committee Service, Status: Completed. (2012).
Student(s): Shelby Coder, Graduate, M.S. Geography.

Member, Graduate Committee Service, Status: Completed. (2012).
Student(s): Warren Grannis, Graduate, M.S. Geography.

D. Courses Prepared and Curriculum Development:

US 1100: University Seminar, Curriculum Development, Texas State University: 2011.

GEO7366: sUAS Data Acquisition and Analysis, First Time Course Preparation. Taught: 2019.

[GEO7366 sUAS Spring2020-1.pdf](#)

GEO4417 Digital Terrain Modeling, First Time Course Preparation. Taught: 2016.

[GEO4417 Jensen Fall 2016-1.pdf](#)

GEO 4412: Digital Remote Sensing, First Time Course Preparation, Texas State University: 2010.

[GEO4412 Jensen 2020-1.pdf](#)

Additional Comments: Most recent syllabus attached

GEO 4324/5324: GPS and GIS, First Time Course Preparation, Texas State University. Taught: 2015.

[GEO4424_5424 Jensen-1.pdf](#)

Additional Comments: Most recent syllabus attached

GEO 5395/7372: Lidar Analysis and Modeling, First Time Course Preparation, Texas State University. Taught: 2013.

[GEO5395_7393I JENSEN SP2017-1.pdf](#)

Additional Comments: Most current syllabus attached

GEO 5415/7415: Geographic Applications in Remote Sensing, First Time Course Preparation, Texas State University. Taught: 2012.

[GEO5415_7415 Jensen-1.pdf](#)

GEO 7316: Remote Sensing of the Environment, First Time Course Preparation, Texas State University. Taught: 2011.

[GEO7316 Jensen-1.pdf](#)

Additional Comments: Most recent syllabus attached

GEO 4316: Landscape Biogeography, First Time Course Preparation, Texas State University. Taught: 2010.

[GEO4316 Jensen-1.pdf](#)

GEO 3416: Principles of Remote Sensing, First Time Course Preparation, Texas State University. Taught: 2009.

[GEO3416_Jensen_Fall2020-1.pdf](#)

Additional Comments: Most recent syllabus attached

GEOG 100: Introduction to Physical Geography, First Time Course Preparation, University of Idaho. Taught: 2007.

GEOG 404: GPS/GIS Integration, New Course, University of Idaho. Taught: 2008.

GEO 7366: Advanced Topics in Remote Sensing, Revise Existing Course, Texas State University. Taught: 2018.

[GEO7366_Jensen_Spring2018-1.pdf](#)

E. Teaching Grants and Contracts

1. Funded External Teaching Grants and Contracts:

Jensen, Jennifer (Co-Principal). AAG Companion Multimedia Educational Website for "Understanding the Changing Planet.", AAG Geography Educational Materials Development, \$17,000.00. (Funded: 2010 - 2011). Grant.

Additional Comments: <http://meridian.aag.org/changingplanet/>

3. Funded Internal Teaching Grants and Contracts:

Jensen, Jennifer. Project name: Subtractive Color Theory (programming and development support), Instructional Technology Support - Grants for Instructional Technology. (Funded: 2010). Grant.

F. Other:

Honor's Thesis Faculty Advisor. (January 1, 2015 - May 1, 2015).

Additional Comments: Served as faculty advisor for Shae Richardson, undergraduate Honor's student.

Student Accomplishments:

Award:

Supervisor, Freeman Fellows Scholarship. Status: Completed. (March 14, 2017).

Student(s): Matthew Washburn, Graduate, M.S. Geography.

Fellowship:

Supervisor, Doctoral Research Support Fellowship. Texas State University.
(2018).

Student(s): Yunuen Reygadas, Doctoral, PhD Geographic Information Science.

Supervisor, Doctoral Research Support Fellowship. Texas State University.
(2018).

Student(s): Saeideh Gharehchahi, Doctoral, PhD Geographic Information Science.

Published Work:

Supervisor. "Assessing the relationship between vegetation greenness and surface temperature through Granger causality and Impulse-Response coefficients: a case study in Mexico." Status: Completed. (2020).

Geography, Texas State University.

Student(s): Yunuen Reygadas, Doctoral, PhD Geographic Information Science.

Additional Comments: Accepted while still a doctoral candidate.

Supervisor. "Forest degradation assessment based on trend analysis of MODIS Leaf Area Index: a case study in Mexico." Status: Completed. (2019). Geography, Texas State University.

Student(s): Yunuen Reygadas, Doctoral, PhD Geographic Information Science.

Supervisor. "A review of the application of remote sensing in fire ecology." Status: Completed. (2019). Geography, Texas State University.

Student(s): David Szpakowski, Doctoral, PhD Geography.

Supervisor. "A geographically weighted regression analysis of the underlying factors related to the surface urban heat island phenomenon." Status: Completed. (2018). Geography, Texas State University.

Student(s): Chunhong Zaho, Doctoral, PhD Geographic Information Science.

Supervisor. "A comparison of urban growth and their influencing factors of two border cities: Laredo in the US and Nuevo Laredo in Mexico." Status: Completed. (2017). Geography, Texas State University.

Student(s): Chloe Zhao, Doctoral, PhD Geographic Information Science.

Supervisor. "A Landsat-based evaluation of lake water clarity in Maine lakes." Status: Completed. (2014).

Student(s): Brittany Courville, Graduate, MS Geography.

Mentor. "Habitat suitability modeling of endangered, *Zizania texana*, within a highly urbanized, artesian ecosystem in San Marcos," 10th International Symposium on Ecohydraulics 2014, Trondheim, Norway. Status: Completed. (2014). Geography, Texas State University.
Student(s): Christina Tolman, Graduate, MAGEography.

Supervisor. "Visualizing and quantifying vineyard canopy LAI using an unmanned aerial vehicle (UAV) collected high density Structure from Motion point cloud." Status: Completed. (2013).
Student(s): Adam Mathews, Doctoral, PhD Geographic Information Science.

Supervisor. "An airborne LiDAR-based methodology for vineyard parcel detection and delineation." Status: Completed. (2012).
Student(s): Adam Mathews, Doctoral, PhD Geographic Information Science.

Scholarship:

Supervisor, Mexico National Council for Science and Technology. Status: Completed. (2016). Geography, Texas State University.
Student(s): Yunuen Reygadas, Doctoral, PhD Geographic Information Science.

Additional Comments: \$76,066 scholarship

III. SCHOLARLY/CREATIVE

A. Works in Print (including works accepted, forthcoming, in press):

1. Books:

d. Chapters in Books:

Refereed:

Jensen, J. L. R., & Mathews, A. M. (2021). Terrain and surface modeling of vegetation height using simple linear regression. In *Fundamentals of Capturing and Processing Drone Imagery and Data*. CRC Press.
[2020 Forthcoming Terrain and surface modeling of vegetation height using simple linear regression-1.pdf](#)

2. Articles:

a. Refereed Journal Articles:

- Jensen, J., Szpakowski, D. M., Butler, D. R., & Chow, T. K. E. (2021). A study of the relationship between fire hazard and burn severity in Grand Teton National Park. *International Journal of Applied Earth Observations and Geoinformation*, 98, 102305. <https://doi.org/10.1016/j.jag.2021.102305>
- Ordway, E. M., Elmore, A. J., Kolstoe, S., Quinn, J. E., Swannick, R., Cattau, M., ... W, C. (2021). Leveraging the NEON Airborne Observation Platform for socio-environmental systems research. *Ecosphere*, 12:6. <https://doi.org/10.1002/ecs2.3640>
- Gharehchahi, S., Ballinger, T. J., Jensen, J., Bhardwaj, A., Sam, L., Weaver, R. C., & Butler, D. R. (2021). Local- and regional-scale forcing of glacier mass balance changes in the Swiss Alps. *Remote Sensing*, 13. Published. <https://doi.org/https://doi.org/10.3390/rs13101949>
- Reygadas Langarica, Y., Jensen, J., Moisen, G., Currit, N., & Chow, E. T. (2020). Assessing the relationship between vegetation greenness and surface temperature through Granger causality and Impulse-Response coefficients: a case study in Mexico. *International Journal of Remote Sensing*, 41(10), 3761–3783. <https://doi.org/https://doi.org/10.1080/01431161.2019.1711241>
[2020 IJRS Assessing the relationship between vegetation greenness and surface temperature-1.pdf](https://doi.org/https://doi.org/10.1080/01431161.2019.1711241)
- Reygadas Langarica, Y., Jensen, J., Moisen, G. G., Currit, N. A., & Chow, T. K. E. (2020). Assessing the relationship between vegetation greenness and surface temperature through Granger causality and Impulse-Response coefficients: a case study in Mexico. *International Journal of Remote Sensing*, 41(10), 3761–3783. <https://doi.org/https://doi.org/10.1080/01431161.2019.1711241>
[Reygadas 2020 IJRS-1.pdf](https://doi.org/https://doi.org/10.1080/01431161.2019.1711241)
- Gharehchahi, S., James, W. H. ., Bhardwaj, A., Sam, L., Jensen, J., Ballinger, T., & Butler, D. R. (2020). Glacier Ice Thickness Estimation and Future Lake Formation in Swiss Southwestern Alps-Rhone Catchment: VOLTA Application. *Remote Sensing*, 12(20), 3443. <https://doi.org/https://doi.org/10.3390/rs12203443>
[Glacier Ice Thickness Estimation and Future Lake Formation in Swiss Southwestern Alps-Rhone Catchment-1.pdf](https://doi.org/https://doi.org/10.3390/rs12203443)
- Zhao, C., Jensen, J., & Weaver, R. (2020). Global and Local Modeling of Land Use Change in the Border Cities of Laredo, Texas, USA and Nuevo Laredo, Tamaulipas, Mexico: A Comparative Analysis. *Land*, 9(10). <https://doi.org/https://doi.org/10.3390/land9100347>
[2020 Global and Local Modeling of Land Use Change in the Border Cities of Laredo and Nuevo Laredo-1.pdf](https://doi.org/https://doi.org/10.3390/land9100347)

- Lute, M. L., Drake, M. D., Serenari, C., Peterson, M. N., Jensen, J. L. R., Belyea, C., ... White, M. (2020). Modeling urban socio-ecological drivers of human–carnivore coexistence. *Journal of Urban Ecology*, 6(1), 1–11.
<https://doi.org/10.1093/jue/juaa022>
- Zhao, C., Jensen, J., Weng, Q., Currit, N., & Weaver, R. (2020). Use of Local Climate Zones to investigate surface urban heat islands in Texas. *GIScience and Remote Sensing*, 1083–1101.
- Lute, M. L., Serenari, C., Drake, M., Peterson, M. N., Jensen, J., Belyea, C., ... White, M. (Published). Modelling Urban Socio-Ecological Drivers of Human-Carnivore Coexistence. *Journal of Urban Ecology*.
- Reygadas, Y., Jensen, J., & Moisen, G. G. (2019). Forest degradation assessment based on trend analysis of MODIS Leaf Area Index: a case study in Mexico. *Remote Sensing*, 11(2503). <https://doi.org/10.3390/rs11212503>
[2019 RS Forest degradation assessment based on trend analysis of MODIS Leaf Area Index a case study in Mexico-1.pdf](#)
- Crouchet, S., Jensen, J., Schwartz, B. F., & Schwinning, S. (2019). Tree Mortality After a Hot Drought: Distinguishing Density-Dependent and Independent Drivers and Why It Matters. *Front. For. Glob. Change*, 2, 21.
[2019 FFGC Tree mortality after a hot drought Distinguishing density-dependent and independent drivers and why it matters-1.pdf](#)
- Szpakowski, D. M., & Jensen, J. L. R. (2019). A review of the application of remote sensing in fire ecology. *Remote Sensing*, 11(22), 2638. <https://doi.org/10.3390/rs11222638>
[2019 RS A review of the application of remote sensing in fire ecology-1.pdf](#)
- Zhao, C., Jensen, J., Weng, Q., Currit, N., & Weaver, R. (2019). Application of airborne remote sensing data on mapping Local Climate Zones: cases of three metropolitan areas of Texas, U.S. *Computers, Environment and Urban Systems*, 74, 175–193.
[2019 CEUS Application of airborne remote sensing data on mapping local climate zones-1.pdf](#)
- Zhao, C., Jensen, J., Weng, Q., & Weaver, R. C. (2018). A geographically weighted regression analysis of the underlying factors related to Surface Urban Heat Island phenomenon. *Remote Sensing*, 10(1428).
<https://doi.org/10.3390/rs10091428>
[2018 RS A geographically weighted regression analysis of the underlying factors related to the surface urban heat island phenomenon-1.pdf](#)

- Pisek, J., Buddenbaum, H., Camacho, F., Hill, J., Jensen, J., Lange, H., ... Vuolo, F. (2018). Data synergy between leaf area index and clumping index Earth Observation products using photon recollision probability theory. *Remote Sensing of Environment*, 215, 1–6. <https://doi.org/10.1016/j.rse.2018.05.026>
[2018 RSE Data synergy between leaf area index and clumping index Earth Observation products using photon recollision probability theory-1.pdf](#)
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3. Conference Proceedings:

a. Refereed Conference Proceedings:

- Pisek, J., Buddenbaum, H., Camacho de Coca, F., Hill, J., Jensen, J., Lange, H., ... Vuolo, F. (2018). Application of Photon Recollision Probability Theory for

Compatibility Check Between Foliage Clumping and Leaf Area Index
Products Obtained from Earth Observation Data.

[2018 IEEE IGRSS Photon Recollision Probability Theory Between Foliage Clumping and Leaf Area Index Products -1.pdf](#)

Harper, C., Currit, N., & Jensen, J. L. R. (2013). Estimating tree canopy foliar volume using terrestrial LiDAR. In *Papers in Applied Geography* (Vol. 36, pp. 290–298).

[2013 PAG Estimating tree canopy foliar volume using terrestrial lidar-1.pdf](#)

Jensen, J. L. R., Irvin, S. ., & Duarte, A. (2013). Lidar-based detection of shrubland and forest land cover to improve identification of Golden-Cheeked Warbler habitat. In *Papers in Applied Geography* (Vol. 36, pp. 74–82).

[2013 PAG Lidar based detection of shrubland and forest land cover to improve identification of golden cheeked warbler habitat-1.pdf](#)

Mathews, A. J. *, & Jensen, J. L. R. (2012). Three-dimensional building modeling using structure from motion: improving model results with telescopic pole aerial photograph. In *Papers of the Applied Geography Conference* (Vol. 35, pp. 98–107).

[2012 PAGC Three dimensional building modeling using structure from motion improving model results.pdf-1.pdf](#)

Zoch, M. ., & Jensen, J. L. R. (2012). Use of high-resolution public imagery to assist in habitat identification and wildlife monitoring efforts: a case study of Concho Water Snake habitat. In *Papers of the Applied Geography Conference* (Vol. 35, pp. 118–124).

[2012 PAGC Use of high resolution public imagery to assist in habitat identification and wildlife monitoring-1.pdf](#)

4. Abstracts:

Hoeinghaus, D. J., Jensen, J., Pease, A., Buckmeier, D., Smith, N., Daugherty, D., ... Allen, Y. (2019). Flow-specific floodplain inundation modeling and Alligator Gar recruitment in the lower Trinity River. Published.

Meitzen, K. M., Jensen, J., & Hardy, T. (2017). Integrating habitat suitability modeling and environmental flows for the conservation of the flood-dependant gar (*Atractosteus spatula*). Published.

Jensen, J. L. R., Mathews, A. *, & Klier, J. (2014). Forest canopy height and percent cover estimates using three dimensional data obtained from an image-based point cloud. *Abstracts of the Annual Meeting of the Association of American Geographers*. Published.

Schwinning, S., Jensen, J., Lomas, M. R., Schwartz, B., & Woodward, F. I. (2013). The prediction of drought-related tree mortality in vegetation models. EOS Transactions. *AGU, Fall Meeting Supplement, Abstract B33J-0600*, 94(58).

Jensen, J. L. R. (2012). An interactive visual tool to aid in color theory concepts and understanding. *Abstracts of the Annual Meeting of the Association of American Geographers*. Published.

Additional Comments: on CD-ROM.

Dietrich, J. T., Fonstad, M. A., Courville, B. C., & Jensen, J. L. (2011). High resolution, automated, low-cost topographic mapping with Microsoft Photosynth. *Abstracts of the Annual Meeting of the Association of American Geographers*. Published.

Additional Comments: on CD-ROM.

Jensen, J. L. R. (2011). Lidar prediction of leaf area index in a sagebrush-steppe ecosystem. *Abstracts of the Annual Meeting of the Association of American Geographers*. Published.

Additional Comments: on CD-ROM.

Jensen, J. L. R., & Humes, K. S. (2010). Lidar-based evaluation of sub-pixel forest structural characteristics and sun-sensor geometries that influence MODIS leaf area index product accuracy and retrieval quality, EOS Transactions. *Fall Meeting Supplement, Abstract B31E- 0345*, 91. Published.

Jensen, J. L. R. (2010). Multi-platform remote sensing estimates of biomass and fuel connectivity in a perennial grassland ecosystem. *Abstracts of the Annual Meeting of the Association of American Geographers*. Published.

Additional Comments: on CD-ROM.

Jensen, J. L. R., & Humes, K. S. (2009). Evaluation of physiographic influences on the agreement between MODIS Leaf Area index retrievals and lidar-based estimates. *Abstracts of the Annual Meeting of the Association of American Geographers*. Published.

Additional Comments: on CD-ROM.

Jensen, J. L., Humes, K. S., Hudak, A. T., & Vierling, L. A. (2008). Evaluation of MODIS and discrete-return lidar based estimates of Leaf Area Index in conifer forests of northern Idaho, EOS Transactions. *AGU, Fall Meeting Supplement, Abstract B41A-0356*, 89(53).

Jensen, J. L. R., Humes, K., Vierling, L., & Hudak, A. (2007). Comparison of single sensor vs. integrated data analysis to estimate leaf area index within highly variable forest conditions in northern Idaho. *Abstracts of the Annual Meeting of the Association of American Geographers, Annual Conference*. Published.

Additional Comments: on CD-ROM.

Jensen, J. L., Humes, K. S., Vierling, L. A., & Hudak, A. T. (2007). Leaf area index modeling and mapping in conifer forests using multispectral and lidar data, EOS Transactions. *AGU, Fall Meeting Supplement, Abstract B43C-1449*, 88(52).

5. Reports:

Hardy, T., Swannack, T. M., Jensen, J., Meitzen, K. M., Schwalb, A. N., & Rose, B. (2019). *Delineating Suitable Mussel Habitat over Large Spatial Scales based on Hydraulic Continuity Equations*, Report prepared for US Army Corps of Engineers Engineer Research and Development Center.

[2019 ACOE Delineating Suitable Mussel Habitat over Large Spatial Scales based on Hydraulic Continuity Equations-1.pdf](#)

Tarbox, B. C., Kelly, I. P., & Jensen, J. L. R. (2019). *The Edwards to Gulf Conservation Blueprint; spatially explicit decision support tools for the San Antonio, Guadalupe, and Lower Colorado River watersheds*. Gulf Coast Prairie Landscape Conservation Cooperative. Retrieved from

<https://gcplcc.databasin.org/datasets/63d0f335c9994b128fa219651fee6d84>

[2019 GCPLCC Edwards to Gulf Landscape Conservation Design Pilot Project - Conservation Blueprint-1.pdf](#)

Meitzen, K. M., Jensen, J., & Hardy, T. (2018). *Floodplain inundation analysis of the lower Guadalupe River: linking hydrology and floodplain-dependent resources*.

[2018 TPWD Floodplain inundation analysis of the lower Guadalupe River linking hydrology and floodplain-dependent resources-1.pdf](#)

Additional Comments: Prepared for Texas Parks and Wildlife, deliverable on grant no. 1448311791

Hoeinghaus, D., Jensen, J., Hardy, T., Winemiller, K. O., Pease, A. A., & Allen, Y. (2018). *Quantification of Alligator Gar recruitment dynamics using a river-stage specific floodplain inundation model*. Gulf Coast Prairie Landscape Conservation Cooperative.

[2018 GCPLCC Quantification of Alligator Gar recruitment dynamics using a river-stage specific floodplain inundation model-1.pdf](#)

Additional Comments: Final Report prepared for the Gulf Coast Prairie Landscape Conservation Cooperative

Hardy, T., Jensen, J., & Forstner, M. R. (2018). *Alpha Texas Dunes Sagebrush Lizard (Sceloporus arenicolus) Habitat Model*.

[2018 DSL Alpha Model Report-1.pdf](#)

Additional Comments: Prepared for Texas Comptroller of Public Accounts, final deliverable for contract no DSL 8-2679. 49 p.

B. Works Not in Print:

1. Papers Presented at Professional Meetings:

Hardy, T. (CoAuthor), Meitzen, K. M. (CoAuthor/Presenter), Jensen, J. (CoAuthor), 112th Annual meeting of the American Association of Geographers (AAG), "Modeling floodplain inundation to evaluate Gar (Lepisosteiformes) habitat suitability in the lower Guadalupe River, USA," American Association of Geographers, San Francisco, San Francisco, CA, United States. (March 29, 2016).

Hardy, T. (CoAuthor/Presenter), Meitzen, K. M. (CoAuthor), Jensen, J. (CoAuthor), 11th ISE 2016, Melbourne, Australia, "DEVELOPMENT OF A FLOW DEPENDENT INUNDATION MODEL FOR EVALUATING GAR (LEPISOSTEIFORMES) HABITAT SUITABILITY IN THE LOWER GUADALUPE RIVER, USA," International Association for Hydro-Environment Engineering and Research, Melbourne, Melbourne, Australia. (February 2016).

Veech, J. A., Jensen, J., Annual meeting of the American Ornithologists' Union (132nd Stated Meeting), the Cooper Ornithological Society (84th Stated Meeting), and the Society of Canadian Ornithologists, "Assessing land cover composition and configuration along routes of the north American breeding bird survey," Estes Park, CO. (2014).

Additional Comments: September 23-28.

Jensen, J. L.R., Mathews, A.**, Klier, J., Annual Meeting of the Association of American Geographers, "Forest canopy height and percent cover estimates using three dimensional data obtained from an image-based point cloud," Tampa, FL. (2014).

Additional Comments: April 8 – 12.

** indicates that first author was a Ph.D. student for whom J. Jensen served as supervisor during research implementation and manuscript preparation

Harper, C., Currit, N., Jensen, J. L.R., Applied Geography Conference, "Estimating tree canopy foliar volume using terrestrial LiDAR," Annapolis, MD. (2013).

Additional Comments: October 30 – November 1.

McCreight, J.*, Jensen, J. L.R., American Society for Photogrammetry and Remote Sensing, Annual Conference, "Fine scale land cover classification of urban vegetation in metropolitan areas of Texas," Baltimore, MD. (2013).

Additional Comments: March 24-28.

* indicates that first author was a M.S. student for whom J. Jensen served as supervisor during research implementation and manuscript preparation

McDaid, G.*, Jensen, J. L.R., American Society for Photogrammetry and Remote Sensing, Annual Conference, "Improving urban vegetation classification accuracy through multi-sensor data fusion," Baltimore, MD. (2013).

Additional Comments: March 24-28.

* indicates that first author was a M.S. student for whom J. Jensen served as supervisor during research implementation and manuscript preparation

Jensen, J. L.R., Irvin, S.*, Duarte, A., Applied Geography Conference, "Lidar-based detection of shrubland and forest land cover to improve identification of golden-cheeked warbler habitat," Annapolis, MD. (2013).

Additional Comments: October 30 – November 1.

* indicates that first author was a M.S. student for whom J. Jensen served as supervisor during research implementation and manuscript preparation

Duarte, A., Jensen, J. L.R., Hatfield, J. S., Weckerly, F. W., 116th Annual Meeting of Texas Academy of Science, Schreiner University, "Spatiotemporal variation in range-wide golden cheeked warbler breeding habitat," Kerrville, TX. (2013).
Additional Comments: February 28 - March 2.

Duarte, A., Jensen, J. L.R., Hatfield, J. S., Weckerly, F. W., 49th Annual Texas Chapter of the Wildlife Society Meeting, "Spatiotemporal variation in range-wide golden cheeked warbler breeding habitat," Houston, TX. (2013).
Additional Comments: February 20-23.

Schwinning, S., Jensen, J., Lomas, M. R., Schwartz, B. F., Woodward, F. I., American Geographical Union Fall Meeting, "The prediction of drought-related tree mortality in vegetation models," San Francisco, CA. (2013).
Additional Comments: December 9 – 13.

Jensen, J. L.R., Association of American Geographers, Annual Meeting, "An interactive visual tool to aid in color theory concepts and understanding," New York, NY. (2012).
Additional Comments: February 24-28.

Jensen, J. L.R., Ridenour, K., Mathews, A.**, Rissel, S., American Society for Photogrammetry and Remote Sensing, Annual Conference, "High resolution mapping of canopy fuels in the wildland urban interface: a case study in Austin, Texas," Sacramento, CA. (2012).
Additional Comments: March 19-23.
** indicates that first author was a Ph.D. student for whom J. Jensen served as supervisor during research implementation and manuscript preparation

Mathews, A. J.**, Jensen, J. L.R., Applied Geography Conference, "Three-dimensional building modeling using structure from motion: improving model results with telescopic pole aerial photography," Minneapolis, MN. (2012).
Additional Comments: October 10-12.
** indicates that first author was a Ph.D. student for whom J. Jensen served as supervisor during research implementation and manuscript preparation

Zoch, M.*, Jensen, J. L.R., Applied Geography Conference, "Use of high-resolution public imagery to assist in habitat identification and wildlife monitoring efforts: a case study of Concho Water Snake habitat," Minneapolis, MN. (2012).
Additional Comments: October 10-12.
* indicates that first author was a M.S. student for whom J. Jensen served as supervisor during research implementation and manuscript preparation

Dietrich, J. T., Fonstad, M. A., Courville, B. C., Jensen, J. L., Association of American Geographers, Annual Meeting, "High resolution, automated, low-cost topographic mapping with Microsoft Photosynth," Seattle, WA. (2011).
Additional Comments: April 12-16.

Jensen, J. L.R., Association of American Geographers, Annual Meeting, "Lidar prediction of leaf area index in a sagebrush-steppe ecosystem," Seattle, WA. (2011).

Additional Comments: April 12-16.

Humes, K. S., Jensen, J. L.R., Association of Pacific Coast Geographers, Annual Conference, "Comparison of MODIS and lidar-derived leaf area index in a complex-terrain, heterogeneous conifer forest," Coeur d'Alene, ID. (2010).

Additional Comments: September 15-18.

Fonstad, M. A., Courville, B. C., Dietrich, J. T., Jensen, J. L., American Geophysical Union Fall Meeting, "Helikites as testbeds for river remote sensing techniques," San Francisco, CA. (2010).

Additional Comments: December 13-17.

Jensen, J. L.R., Fremier, A., American Society for Photogrammetry and Remote Sensing, Annual Conference, "Integration of aerial photography and airborne lidar data to delineate river channel meander and cutoff dynamics," San Diego, CA. (2010).

Additional Comments: April 26-30.

Jensen, J. L.R., Humes, K. S., American Geophysical Union Fall Meeting, "Lidar-based evaluation of sub-pixel forest structural characteristics and sun-sensor geometries that influence MODIS leaf area index product accuracy and retrieval quality," San Francisco, CA. (2010).

Additional Comments: December 13-17.

Jensen, J. L.R., Association of American Geographers, Annual Conference, "Multi-platform remote sensing estimates of biomass and fuel connectivity in a perennial grassland ecosystem," Washington, DC. (2010).

Additional Comments: April 14-18.

Chow, T. K. (presenting author), Meng, X., Heger, N., Jensen, J., The 18th International Conference on Geoinformatics, "Sensitivity of fire growth simulation to lidar-derived elevation and fuel maps," Beijing, China. (2010).

Additional Comments: June 18-20.

Jensen, J. L.R., Humes, K. S., Association of American Geographers, Annual Conference, "Evaluation of physiographic influences on the agreement between MODIS Leaf Area index retrievals and lidar-based estimates," Las Vegas, NV. (2009).

Additional Comments: March 22-27.

Jensen, J. L.R., Humes, K. S., Bianchetti, R., American Society for Photogrammetry and Remote Sensing, Annual Conference, "Evaluation of single vs. integrated sensor algorithms to estimate leaf area index in complex forest environments," Baltimore, MD. (2009).

Additional Comments: March 9-13.

Jensen, J. L., Humes, K. S., Hudak, A. T., Vierling, L. A., American Geophysical Union, Fall Meeting, "Evaluation of MODIS and discrete-return lidar based estimates of leaf area index in conifer forests of northern Idaho," San Francisco, CA. (2008).

Additional Comments: December 15-19.

Hudak, A. (presenting author), Evans, J., McNamara, D., Falkowski, M., Jensen, J. L.R., Martinuzzi, S., Vierling, L., Link, T., USGS Second National Lidar Meeting, "Forestry applications of LiDAR in the Interior Northwest," Reston, VA. (2008).
Additional Comments: May 21-22.

Jensen, J. L.R., Humes, K., Vierling, L., Hudak, A., Association of American Geographers Annual Meeting, "Comparison of single sensor vs. integrated data analysis to estimate leaf area index within highly variable forest conditions in northern Idaho," San Francisco, CA. (2007).
Additional Comments: April 17-21.

Jensen, J. L.R., Humes, K., Vierling, L., Hudak, A., Association of American Geographers Annual Meeting, "Comparison of single sensor vs. integrated data analysis to estimate leaf area index within highly variable forest conditions in northern Idaho," San Francisco, CA. (2007).
Additional Comments: April 17-21.

Jensen, J. L.R., Humes, K., Vierling, L., Hudak, A., American Geophysical Union Fall Meeting, "Leaf area index modeling and mapping in conifer forests using multispectral and lidar Data," San Francisco, CA. (2007).
Additional Comments: December 10-14.

Jensen, J. L.R., Humes, K. S., DeGroot, J., Botto, R., Robischon, S., 11th Biennial USDA Forest Service Remote Sensing and Applications Center Conference, "Comparison of Lidar-mapped estimates of mixed-conifer forest characteristics with operationally modeled stand data in northern Idaho," Salt Lake City, UT. (2006).
Additional Comments: April 24-28.

Jensen, J. L.R., Humes, K., Williams, C., DeGroot, J., ASPRS 2006 Annual Conference: Prospecting for Geospatial Information Integration, "Evaluation of lidar and multispectral data fusion methods to improve estimates of forest carbon sequestration capacity," Reno, NV. (2006).
Additional Comments: May 1 – 5.

Humes, K. (presenting author), Jensen, J. L.R., Robischon, S., DeGroot, J., Botto, R., 11th Biennial USDA Forest Service Remote Sensing and Applications Center Conference, "Inventory mapping of mixed-conifer forest stands across areas with diverse structural and topographic characteristics," Salt Lake City, UT. (2006).
Additional Comments: April 24-28.

Jensen, J. L.R., Scott, M. J., Svancara, L., National Gap Analysis Conference and Interagency Symposium, "Focal species as conservation targets: an assessment of Idaho's forests as comprehensive reserves," Reno, NV. (2005).
Additional Comments: December, 5-8.

Humes, K. S., Jensen, J. L.R., DeGroot, J., Silviscan 5th Conference on Lidar Applications in Forest Assessment and Inventory, "Inventory mapping of

mixed-conifer forest stands across areas with diverse structural and topographic characteristics," Blacksburg, VA. (2005).

Additional Comments: Sept 29 – Oct. 5.

2. Invited Talks, Lectures, and Presentations:

Jensen, J. L.R., Faculty Showcase, Instructional Technologies Support, "How I Learned to Use TRACS to Improve Student Outcomes and Simplify Course Preparation," Texas State University-San Marcos. (2012).

Jensen, J. L.R., Texas State University, Department of Geography 5309 Graduate Seminar, "Integrating Remote Sensing and GIS to Model Ecosystem Structure and Function," San Marcos, TX. (2010).

Additional Comments: 2009-2010.

Jensen, J. L.R., Remote Sensing Seminar: Activities at Freeman Ranch and the Texas Hill Country, "RS of Vegetation: Lidar and Spectral Imaging." (2010).

Jensen, J. L.R., Texas GIScience Center Friday talks, "Top-down vs. Bottom-up Approaches to Model Ecosystem Structure," San Marcos, TX. (2009).

Jensen, J. L.R., Coeur d'Alene GIS Workshop, "GIS on Fire", "Predicting Forest Biophysical Properties with Lidar," Plummer, ID. (2005).

Additional Comments: May 9-15 (oral presentation)

Jensen, J. L.R., Humes, K., Conner, T., Williams, C., 1st Annual ForestPARC Lidar and Technical Users Conference, "Implementing Small Footprint Lidar for Operational Decision Making on the Nez Perce Reservation," Moscow, ID. (2004).

Additional Comments: May 17-19, 2004

Jensen, J. L.R., 40th Annual Idaho Chapter of the Wildlife Society Meeting, "LiDAR Technology and Modeling Forest Characteristics," Moscow, ID. (March 3, 2004).

5. Other Works not in Print:

b. Works "in progress":

Journal Articles:

Gharehchahi, S., Savelyev, A., Jensen, J., Andres, N., & Röthlisberger, V. (In Preparation; Not Yet Submitted). Spatial and Temporal Characteristics of Floods and Mass Movements in Switzerland from 1972 to 2016.

C. Scholarly / Creative Grants and Contracts:

1. Funded External Grants and Contracts:

Martina, Jason (Principal), Jensen, Jennifer (Co-Principal), Percent Contribution: 50%. Using remote sensing to map *Arundo donax* populations in Native Fish Conservation Areas throughout Texas to better understand causal factors of invasion and set management priorities, Texas Parks and Wildlife Department, State, \$130,521.00. (Funded: September 2021 - August 2023). Grant.

Jensen, Jennifer (Co-Principal), Currit, Nathan (Principal). Subtask order for Professor of Practice, Jacob's Engineering and Technology, Private / Foundation / Corporate, \$1,641,549.00. (Funded: 2015 - 2021). Contract.

Jensen, Jennifer (Principal), Hardy, Thomas (Co-Principal). Implementing a validation framework for Dunes Sagebrush Lizard habitat classification, United States Fish and Wildlife Service, Federal, \$21,354.91. (Funded: July 1, 2020 - January 1, 2021). Contract.

Jensen, Jennifer (Principal), Mix, Ken (Co-Principal). Unmanned Aerial Vehicle monitoring of spectral response to plant productivity and mortality, Texas EcoLab; Brock Consulting Group, \$111,960.00. (Funded: January 1, 2016 - December 31, 2021). Grant.

Jensen, Jennifer (Principal). Geographic Information System Data Architecture Upgrade for Healthy Creeks Initiative, Texas Parks and Wildlife, State, \$14,537.00. (Funded: April 2020 - September 2020). Contract.

Green, Michael Clay (Principal), Jensen, Jennifer (Co-Principal), Hardy, Thomas (Co-Principal). Outreach and end-user support to implement Shared Conservation Priority Access, US Fish and Wildlife Service, Federal, \$77,000.00. (Funded: 2019). Grant.

Hardy, Thomas (Principal), Forstner, Michael R (Co-Principal), Jensen, Jennifer (Co-Principal). Evaluation of Texas Conservation Plan and Dunes Sagebrush Lizard, Texas Comptroller of Public Accounts, State, \$1,495,010.06. (Funded: November 10, 2016 - December 31, 2018). Contract.

Jensen, Jennifer (Co-Principal), Hoeinghaus, David (Principal). Quantification of Alligator Gar recruitment dynamics using a river-stage specific floodplain inundation model, Gulf Coast Prairie Landscape Conservation Cooperative, \$199,973.00. (Funded: 2015 - 2018). Grant.

Jensen, Jennifer (Co-Principal), Green, Michael Clay (Principal), Hardy, Thomas (Co-Principal). Developing a process and conservation application for Landscape Conservation Design for the Gulf Coast Prairie Landscape Conservation Cooperative., Gulf Coast Prairie Landscape Conservation

Cooperative, Private / Foundation / Corporate, \$200,000.00. (Funded: April 2017 - October 2018). Grant.

Jensen, Jennifer (Co-Principal), Hardy, Thom (Principal). Floodplain Inundation Analysis of the Lower Guadalupe River: Linking Hydrology and Floodplain-Dependent Resources, Texas Parks and Wildlife, \$104,205.00. (Funded: 2015 - 2017). Grant.

Jensen, Jennifer (Principal), Hollier, Andi (Co-Principal). Remote Sensing of Urban Growth in the Dallas-Fort Worth Metroplex: 1985-2015, United States Geological Survey through Midwestern State University – TexasView Project, \$1,350.00. (Funded: 2015 - 2016). Grant.

Jensen, Jennifer (Principal), Schaub, Corby (Co-Principal). Remote Sensing of Urban Growth in the I35 Corridor of Texas, United States Geological Survey through Midwestern State University – TexasView Project, \$1,350.00. (Funded: 2015 - 2016). Grant.

Jensen, Jennifer (Co-Principal), Chen, Xiao (Principal). CC*IE Networking Infrastructure: Enabling and Improving Data-Driven Research at Texas State University, National Science Foundation, \$499,896.00. (Funded: 2014 - 2016). Grant.

Additional Comments: Campus Cyberinfrastructure – Network Infrastructure and Engineering Program

Jensen, Jennifer (Co-Principal), Popescu, Sorin (Principal). Urban Vegetation for Biogenic Emissions, Texas Commission on Environmental Quality, \$145,000.00. (Funded: 2010 - 2012). Grant.

Jensen, Jennifer (Principal). Evaluating the utility of laser altimetry to characterize post-fire vegetation response in a sagebrush-steppe ecosystem, John Topham and Susan Redd Butler Faculty Research Award; Charles Redd Center for Western Studies, Brigham Young University, \$2,000.00. (Funded: 2010 - 2011). Grant.

Jensen, Jennifer (Co-Principal), Humes, Karen (Principal). Quantifying Leaf Area Index for Coniferous Forests: Assessment of MISR and MODIS Products Over Complex Terrain and New Methodologies for Deriving Vegetation Structure from MISR Data, NASA Idaho EPSCoR Research Initiation Grant, \$30,000.00. (Funded: 2008 - 2009). Grant.

2. Submitted, but not Funded, External Grants and Contracts:

Jensen, Jennifer (Principal), Duarte, Adam (Co-Principal). Spatiotemporal assessment of golden-cheeked warbler overwinter habitat., Texas Parks and Wildlife Department, State, \$96,230.00. (Submitted: November 2017). Grant.

Jensen, Jennifer (Co-Principal). Science Program in Earth Observation (SciPEO), NASA MUREP Institutional Research Opportunity. NNH14ZHA001N-MIRO, \$4,998,157.00. (Submitted: 2015). Grant.

Jensen, Jennifer (Principal). Socioeconomic and Physical Drivers of Rapid Environmental Change: Population Growth, Land Cover Land Use, and Water Resource Sustainability in the Austin-San Antonio Corridor. Phase I proposal, NASA ROSES Land Cover Land Use for Early Career Scientists. NNH11ZDA001N-LCLUC, \$230,728.00. (Submitted: 2012). Grant.

Jensen, Jennifer (Principal). Lidar-based Assessment and Improvement Strategies for MODIS Leaf Area Index Products in Conifer Forest and Sage Ecosystems, NASA ROSES 2009 The Science of Terra and Aqua (NNH09ZDA001N), \$292,408.00. (Submitted: 2010). Grant.

3. Funded Internal Grants and Contracts:

Jensen, Jennifer (Principal). Mapping Historic and Current Ashe Juniper Presence and Abundance at Freeman Center Using Historic Aerial Photography and Multispectral Image Datasets, Texas State University, Research Enhancement Program Grant, \$9,980.00. (Funded: 2014). Grant.

Jensen, Jennifer (Principal). Texas Trends: Towards Developing An Interdisciplinary, Sustained Research Network in Land Change Science at Texas State University, Texas State University, Multi-disciplinary Internal Research Grant, \$25,000.00. (Funded: 2013). Grant.

Jensen, Jennifer (Principal). Analysis of Dense Three-dimensional Point Clouds From Multi-angle, High Resolution Imagery to Estimate and Map Urban Forest Canopy Characteristics in Travis County, Texas, Texas State University, Research Enhancement Program Grant, \$8,000.00. (Funded: 2012). Grant.

Jensen, Jennifer (Principal). Analysis of Active and Passive Remotely Sensed Data to Generate Spatially-explicit Fuel Load Estimates for a Mixed Grassland Ecosystem in Bastrop County, Texas, Texas State University, Research Enhancement Program Grant, \$8,000.00. (Funded: 2010). Grant.

4. Submitted, but not Funded, Internal Grants and Contracts:

Jensen, Jennifer (Principal). Biophysical Modeling and Monitoring of Temperate Conifer Forest Structure and Function, One-time Application for Research Funds Solicited by Associate Vice President of Research, \$59,600.00. (Submitted: 2009). Grant.

Jensen, Jennifer (Co-Principal), Fonstad, Mark. Hyperspectral Imaging at Texas State University, One-time Application for Research Funds Solicited by Associate Vice President of Research, \$244,500.00. (Submitted: 2009). Grant.

D. Scholarly / Creative Fellowships, Awards, Honors:

Award / Honor Recipient: Diane A. Haynes Memorial Award for College of Science Outstanding Graduate Student, University of Idaho.
2009

Fellowship Recipient: University of Idaho Scholarly and Creative Activity Doctoral Fellowship (\$25,000), University of Idaho.
2008 - 2009

Fellowship Recipient: NASA Idaho Space Grant Consortium Fellowship (Awarded \$45,000; accepted \$37,500), NASA.
2006 - 2009

Award / Honor Recipient: Second Place, Overall Research Category, University of Idaho Research Exposition.
2008

Award / Honor Recipient: Second Place, UI College of Science Student Research Exhibition, University of Idaho.
2008

IV. SERVICE

A. Institutional

1. University:

Member, Voter Registration and Civic Engagement Committee. (October 2019 - Present).

Member, Women in Science and Engineering Conference Planning Committee. (2016 - Present).

Member, Secretary, Faculty Senate. (2020 - 2021).

Member, Commencement Planning Workgroup. (2020).

Member, NASA Educator Professional Development Collaborative. (2015 - 2019).

Member, Freeman Ranch Advisory Committee. (2012 - 2018).

Inquiry Committee on Research Misconduct (at the request of Assistant VP for Research and Federal Relations), Texas State University. (2012 - 2013).

Advisor, University of Idaho Women's Volleyball Club. (2008).

2. College:

Member, Faculty Senate. (May 2019 - Present).

Research Enhancement Program Proposal Review. (September 2018 - December 2018).

3. Department/School:

Member, Scheduling Committee. (2021).

Member, Associate/Full Professor Search Committee. (2019 - 2020).

Member, Communication and Recruitment Committee. (2019 - 2020).

Evaluation Committee. (September 2018 - May 2019).

Recruitment and Communication Committee. (September 2018 - May 2019).

Scholarships and Awards Committee. (September 2017 - May 2018).

Chair, Geography Student Research Symposium. (September 2017 - May 2018).

Faculty Advisor, Supporting Women in Geography, Student Organization, Texas State University. (2009 - 2017).

Chair, Evaluation Committee. (2016).

Recruitment and Communication Committee, Texas State University. (2013 - 2014).

Undergraduate Committee, Texas State University. (2013 - 2014).

Environmental Geography Candidates Search Committee, Texas State University. (2012 - 2013).

Physical Geography Candidate Search Committee, Texas State University. (2011 - 2012).

Graduate Committee. Department of Geography, Texas State University. (2010 - 2012).

Equipment Committee. Department of Geography, Texas State University. (2009 - 2011).

Scholarship Committee. Department of Geography, Texas State University. (2009 - 2010).

Graduate Student Representative, University of Idaho Geography Faculty Search Committee. (2008).

Graduate Student Representative, University of Idaho Geography Faculty Search Committee. (2006).

Geography Department Representative, UI Graduate and Professional Student Association. (2003 - 2004).

B. Professional:

Reviewer / Referee, American Philosophical Society. (2020).

Additional Comments: Proposal review

Guest Editor, Remote Sensing. (2019 - 2020).

Reviewer / Referee, National Science Foundation - AISL. (2019 - 2020).

Reviewer / Referee, Remote Sensing. (2019).

Manuscript Review, Annals of the Association of American Geographers. (2017).

Manuscript Review, International Journal of Applied Geospatial Research. (2017).

Reviewer / Referee, IEEE Geoscience and Remote Sensing Letters. (2017).

Reviewer / Referee, IEEE Transactions in Geoscience and Remote Sensing. (2017).

Reviewer / Referee, Maryland Sea Grant: Coastal Resilience and Sustainability Fellowship. (2017).

Reviewer / Referee, Lakes & Reservoirs: Research and Management. (2016).

Manuscript Review, Remote Sensing of Environment. (2015).

Review Panel, NASA NESSF Carbon Cycle and Ecosystems Panel. (2015).

Review Panel, NASA NESSF Carbon Cycle and Ecosystems Panel. (2014).

Manuscript Review, Photogrammetric Engineering & Remote Sensing. (2013).

Manuscript Review, The Forestry Chronicle. (2013).

Reviewer / Referee, Silva Fennica. (2013).

Session Moderator, Technical Session: Urban Mapping #2, American Society for Photogrammetry and Remote Sensing 2012 Annual Meeting, Sacramento, CA. (2012).

Manuscript Review, Computers and Geosciences. (2011).

Manuscript Review, The Professional Geographer. (2011).

Session Chair, Paper Session 4477, Remote Sensing of the Environment, Association of American Geographers 2010 Annual Meeting, Washington, DC. (2010).

Moderator, Technical Session 84, Lidar – Forestry, American Society for Photogrammetry and Remote Sensing 2009 Annual Meeting, Baltimore, MD. (2009).

Manuscript Review, Canadian Journal of Forest Research. (2008).

C. Community:

Volunteer, Central Texas Surf Soccer Club, Kyle, TX. (2020 - Present).

Additional Comments: Central Texas Surf Soccer Club Volunteer Coordinator
and U15 Team Manager

Volunteer, Hays County Election Clerk, San Marcos, TX. (October 2019 - Present).

Volunteer, Central Texas Flash Soccer Club, Kyle, TX. (2018 - 2020).

Additional Comments: Central Texas Flash Soccer Club Volunteer Coordinator,
U13 and U14 Team Manager

Girl Scouts of Central Texas, San Marcos Service Unit Cookie Manager. (2012 - 2016).

San Marcos Girl Scout Troop 904 Cookie Coordinator. (2011 - 2015).

San Marcos Area Youth Soccer Association U10 Coach. (2011 - 2013).

E. Service Honors and Awards:

Award / Honor Recipient: Julie Tuason Award, Supporting Women in Geography (SWIG).
2015

Award / Honor Recipient: Student Organization for Geographic Information Science (SOGIS) Achievement In GIS, Texas State University.
2014