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Amanda J. M. Oliver

10021 Elise Dr.
St. Louis MO 63123

WORK EXPERIENCE:

Ecologist and Geospatial Analyst, U.S. Army Corps of Engineers, MS & MO 2014 - current

I currently develop and implement methodologies to analyze geographic and biological data. I am the principal investigator on several studies of geographic change in the Lower Mississippi River to include a study of the changing connectivity of floodplain waterbodies and secondary channels. Other duties include input, management, and quality assurance of fish sampling and habitat data and creating maps detailing the geographic components of sample sites. My work helps document the status of habitat and fish communities to identify and prioritize restoration throughout the Lower Mississippi River.

Botany Volunteer, Canadian Museum of Nature, Gatineau, QC 2012 – 2014

Prepared and mounted hundreds of recently collected specimens and removed and remounted specimens from the 1913 Canadian Arctic Expedition for the permanent collection. Cataloged plant specimens and associated data to study species persistence and abundance at mitigation sites.

Ecologist, U.S. Army Corps of Engineers, St. Louis, MO 2006 – 2012

Worked as an Ecologist, GIS analyst and Planner primarily on floodplain restoration projects. I designed monitoring protocols, led sampling trips, tabulated and analyzed data, and wrote reports to document riverine communities. Using GIS, I conducted and published studies on pallid sturgeon distribution and secondary channel change. I worked on numerous planning projects, writing studies, reviewing and documenting project compliance, coordinating with appropriate agencies, and managing document reviews.

Research Assistant, St. Louis University, St. Louis, MO 2005 – 2006

Identified, to species, vegetation growing in a long term grazing enclosure in southern Arizona. Utilized MS Excel to manage, and perform quality assurance checks and JMP Software to statistically analyze 25 years of vegetation data. My work will be used to help determine the effects of cattle exclusion on desertification.

Teaching Assistant, St. Louis University, St. Louis, MO 2004 – 2005

I taught 90 biology students divided amongst three sections of general biology per semester. I prepared and presented lectures, oversaw an undergraduate assistants, tutored students and graded assignments.

Entrance Attendant, Roxborough State Park, Roxborough, CO 2003-2004

Took entrance fees, provided park information, and managed lineups. I was the first person guests met and it was very important to me to set visitors up for a positive experience.

Research Technician I, CO State Univ. and CO Div. of Wildlife, Denver, CO 2003

I worked on the Re-GAP project, identifying plant communities in the Colorado Rockies. The data were used to verify vegetative coverage maps created from satellite imagery.

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Research Technician, Illinois Natural History Survey, Urbana, IL 2001 – 2002

I designed and implemented an intensive study on the natural history and management of teasel, an invasive non-native plant, by conducting laboratory germination tests and field seed dispersal tests.

EDUCATION:

UNIVERSITY OF MISSOURI SAINT LOUIS

Degree: Graduate Certificate in Tropical Biology & Conservation **Major:** Conservation

Research: Compared nine years of bird location data to habitat data to predict species richness

SAINT LOUIS UNIVERSITY

Degree: Master of Science (Research) **Major:** Biology

Field Research: Determined if predator scent is an effective, humane raccoon deterrent

MILLIKIN UNIVERSITY

Degree: Bachelor of Science **Major:** Biology

Research: Four years of spider foraging studies to determine if spiders can survive on dead prey

PUBLICATIONS:

Oliver, A.J.M., C.E. Murphy, C.D. Little Jr., and K.J. Killgore. 2016. Measuring connectivity of floodplain waterbodies to the Lower Mississippi River. MRG&P Technical Note 1. Vicksburg, MS.

Guntren, E.F., **A.J.M. Oliver**, T.M. Keevin, and D.C. Williams. 2016. Change in Lower Mississippi River secondary channels: an atlas of bathymetric and photographic data. MRG&P Report No. 8, U.S. Army Corps of Engineers, Vicksburg, MS. 533 p.

Koch, B., R.C. Brooks, **A. Oliver**, D. Herzog, J.E. Garvey, R. Hrabik, R. Colombo, Q. Phelps, and T. Spier. 2012. Habitat selection and movement of naturally occurring pallid sturgeon in the Mississippi River. Transactions of the American Fisheries Society. 141:112-120.

Oliver, A.J., C. Hong-Wa, J. Devonshire, K.R. Olea, G.F. Rivas, and M.K. Gahl. 2011. Avifauna richness enhanced in large, isolated urban parks. Landscape and Urban Planning. 102:215-225.

Oliver, A.J. 2006. Raccoon (*Procyon lotor*) foraging response to predator scent: Implications for the mesopredator release hypothesis and management. "Master's Thesis". Saint Louis University, St. Louis, MO.