

# Joshua T. Ream

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## Curriculum Vitae

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### EDUCATION:

Ph.D. in Ethnobiology (Interdisciplinary Studies). University of Alaska Fairbanks (Conferred May 8<sup>th</sup>, 2016). Advisor: Andres Lopez ([jalopez2@alaska.edu](mailto:jalopez2@alaska.edu))

M.S. in Biology. Austin Peay State University (Conferred December 12<sup>th</sup>, 2008). Advisor: Floyd Scott ([scotta@apsu.edu](mailto:scotta@apsu.edu))

B.S. in Animal Sciences (Minor in Wildlife & Fisheries Science). Pennsylvania State University - University Park Campus (Conferred December 22<sup>nd</sup>, 2006). Advisor: Phillip Clauer ([pclauer@psu.edu](mailto:pclauer@psu.edu))

### PUBLICATIONS:

Ream, J.T. 2017. Local and Traditional Knowledge of Chinook Salmon in the Stikine River Region of Alaska. Alaska Department of Game Division of Subsistence, Technical Paper (*In prep*), Anchorage.

Hazell, S.M., C. Welch, T. Krieg, J. T. Ream, S. Evans, H. Johnson and G. Zimpelman. 2015. Nonsalmon Fish Trends in the Kvichak Watershed: Ethnographic Overview and 2012–2013 Nonsalmon Fish Harvests in 6 Selected Communities, 2012-2013. Alaska Department of Fish and Game, Division of Subsistence Technical Paper No. (In-press), Anchorage.

Hazell, S. M., R. La Vine, H. Johnson, B. Jones, M. Kukkonen, J. T. Ream, E. Schacht, J. M. Van Lanen and G. Zimpelman. 2014. The Harvest and Use of Wild Resources in Selected Communities of the Copper River Basin and East Glenn Highway, 2013. Alaska Department of Fish and Game, Division of Subsistence Technical Paper No. 405, Anchorage.

Fall, J. A., N. M. Braem, C. L. Brown, S. S. Evans, L. Hutchinson-Scarborough, B. Jones, R. La Vine, T. Lemons, M. A. Marchioni, E. Mikow, J. T. Ream, and L. A. Sill. 2014. Alaska subsistence and personal use salmon fisheries 2012 annual report. Alaska Department of Fish and Game Division of Subsistence, Technical Paper No. 406, Anchorage.

Ream, J. T. 2013. Geographic distribution. *Ambystoma macrodactylum*. Herpetological Review 44:4.

Holen, D., S. M. Hazell, J. M. Van Lanen, J. T. Ream, S. P. A. Desjardins, B. Jones, and G. Zimpelman. 2014. The Harvest and Use of Wild Resources in Cantwell, Chase, Talkeetna, Trapper Creek, Alexander/Susitna, and Skwentna, Alaska, 2012. Alaska Department of Fish and Game, Division of Subsistence Technical Paper No. 385, Anchorage.

Fall, J. A., A. R. Brenner, S. S. Evans, D. Holen, L. Hutchinson-Scarborough, B. Jones, R. La Vine, T. Lemons, M. A. Marchioni, E. Mikow, J. T. Ream, L. A. Sill, and A. Trainor. 2013. Alaska subsistence and personal use salmon fisheries 2011 annual report. Alaska Department of Fish and Game Division of Subsistence, Technical Paper No. 387, Anchorage

- Ream, Joshua T. *Amphibians and Reptiles in the Cultures of the World and the Northwest Pacific Coast*. Rep. Alaska Herpetological Society, 2013. Web.
- Ream, Joshua T. *Herpetology in the North: A Review of Past, Present, and Future Herpetofaunal Research and Management in the North*. Rep. Alaska Herpetological Society, 2013. Web.
- Ream, Joshua T. *Local and Traditional Knowledge: Tools for Wildlife Research and Management*. Rep. Alaska Herpetological Society, 2013. Web.
- Ream, Joshua T. *The Shtax'heen Kwaan of the Tlingit in Southeast Alaska: A Literature Review*. Rep. Alaska Herpetological Society, 2012. Web.
- Ream, Joshua T. *Traditional Tlingit Relationships with Native Alaska Fauna*. Rep. Alaska Herpetological Society, 2012. Web.
- Ream, Joshua T. *Math for Language Development. Grade 8. Integrating Culturally Responsive Place-Based Content with Language Skills Development for Curriculum Enrichment*. Ed. Christy Ericksen, Crystal Worl, Kathy Dye and Michael Obert. Juneau: Sealaska Heritage Institute, 2012. Print.
- Ream, Joshua T. *Math for Language Development. Grade 7. Integrating Culturally Responsive Place-Based Content with Language Skills Development for Curriculum Enrichment*. Ed. Christy Ericksen, Crystal Worl, Kathy Dye and Michael Obert. Juneau: Sealaska Heritage Institute, 2012. Print.
- Dunton, E. M., J. T. Ream, J. Fieberg, K. J. Haroldson. 2009. Wild turkey food habits on the fringe of their range in Minnesota. In M. W. DonCarlos et al, (eds.) *Summaries of Wildlife Research Findings 2008*. Minnesota Department of Natural Resources. Wildlife Populations and Research Unit. St. Paul.
- Ream, J. T. 2008. Survival, movements and habitat selection of introduced juvenile alligator snapping turtles (*Macrochelys temminckii*) in the Wolf River drainage, Fayette County, Tennessee. M.S. thesis, Austin Peay State University, Clarksville, Tennessee. 125 pp.
- Ream, J. T. 2008. Geographic distribution. *Hyla avivoca*. *Herpetological Review* 39:105.
- Ream, J. T. AND E. P. JOHANSEN. 2008. Geographic distribution. *Ambystoma talpoideum*. *Herpetological Review* 39:360.
- Ream, J.T. and E.P. Johansen. 2008. Geographic distribution. *Farancia abacura*. *Herpetological Review* 40:114.
- Ream, J. T. AND C. J. O'BRYAN. 2008. Geographic distribution. *Agkistrodon contortrix*. *Herpetological Review* 39:369-370.
- Ream, Joshua T. "Aquatic Giants: The Alligator Snapping Turtle & Its Recovery in West Tennessee." *Tennessee Herpetological Society Newsletter* 3 (Fall 2007): 2. Print.

## RESEARCH EXPERIENCE:

2014 - Present. Principal Investigator. Stikine Long-term Amphibian Monitoring Program (SLAMP). Alaska Herpetological Society.

TOPIC: Understanding long-term trends in amphibian distribution, abundance and utilization of breeding habitat in the Stikine-LeConte Wilderness

2012 - 2016t. Subsistence Resource Specialist. Division of Subsistence. Alaska Department of Fish and Game – Anchorage, AK.

TOPIC: Subsistence harvest and use patterns in Alaska

2014 - 2016. Research Assistant. Division of Subsistence. Alaska Department of Fish and Game – Anchorage, AK.

TOPIC: Upper Cook Inlet Chinook salmon genetics & local knowledge

2013 - 2016. Co-investigator. Division of Subsistence. Alaska Department of Fish and Game – Anchorage, AK.

TOPIC: Local and traditional knowledge of Chinook salmon in the Stikine River Region of Alaska

2009 - 2016. Research Assistant. Department of Fisheries and Ocean Sciences / University of Alaska Museum. University of Alaska Fairbanks – Fairbanks, AK.

TOPIC: Interdisciplinary research on the capacity of Local and Traditional Knowledge (LTK) to supplement Western Science (WS) in the study and management of herpetofauna in Alaska.

2010. Intern. Northwest Section of Partners in Amphibian and Reptile Conservation - Vancouver, British Columbia.

TOPIC: Archaeological evidence of turtles in native cultures of southern British Columbia

2009. Research Technician. Department of Biology. University of Nevada – Reno, NV.

TOPIC: Black-capped Chickadee nesting success in Anchorage, Alaska

2009. Research Technician. Minnesota Department of Natural Resources – Onamia, MN.

TOPIC: Winter diet of Wild Turkeys in Minnesota

2009. Research Assistant. School of Natural Resources and Agricultural Science. University of Alaska Fairbanks – Fairbanks, AK.

TOPIC: Quantitative analyses of wildfire burn severity in Alaska using Remote Sensing and GIS  
2009. Research Assistant.

Center of Excellence for Field Biology. Austin Peay State University – Clarksville, TN.

TOPIC: Management of Alligator Snapping Turtle Reintroduction Program in Tennessee; Habitat preferences, movement patterns and survival of released juvenile Alligator Snapping

Turtles; Surfacing behavior in juvenile Alligator Snapping Turtles; Turtle assemblages of the Wolf River Wildlife Management Area, Tennessee; Herpetofaunal inventory of the Milan Army Ammunition Plant, TN

2006. Research Technician. Department of Biology. Pennsylvania State University – University Park, PA.

TOPIC: Rodent parasitology in central Pennsylvania

2006. Research Technician – Winter Externship. College of Agricultural Sciences. Pennsylvania State University – University Park, PA.

TOPIC: Effect of diet on Holstein calf health

2005 - 2006. Research Volunteer. Pennsylvania Game Commission – State College, PA.

TOPIC: Ruffed-grouse flush and drum surveys

2005. Research Technician. Department of Fisheries and Ocean Sciences. University of Alaska Fairbanks – Kodiak, AK.

TOPIC: Shorebird nesting success & diets in Chiniak Bay

2005. Research Volunteer. Center for Rural Development. Pennsylvania State University – University Park, PA.

TOPIC: Habitat restoration and ecotourism in Belize

2003 – 2005. Research Technician. Department of Poultry Science. Pennsylvania State University – University Park, PA.

TOPIC: Effect of diet on egg productivity, shell thickness, muscle mass, and disease

#### **TEACHING EXPERIENCE:**

2014. Instructor / Program Lead. Herpetological Curricula and Hands-on Research for K12 Schools – Fairbanks Teacher Workshop. Alaska Herpetological Society and the National Park Service.

2014. Instructor / Program Lead. Camp Phibian. Alaska Herpetological Society, the Girl Scouts of Alaska, and the U.S. Forest Service.

2011. Instructor / Curriculum Development Specialist. Developmental Language Process for K-12 Instructors. Sealaska Heritage Institute.

2007-2008. Laboratory Assistant. Anatomy and Physiology. Austin Peay State University.

2003-2004. Instructor. Becoming a Licensed Alaska Teacher. Department of Education. University of Alaska Fairbanks.

#### **RELATED EMPLOYMENT EXPERIENCE:**

2016 – Present. Anthropologist. Full-time Permanent. Office of Subsistence Management, U.S. Fish and Wildlife Service – Region 7.

2012 – 2016. Anthropologist (Subsistence Resource Specialist I). Full-time Permanent. Division of Subsistence. Alaska Department of Fish and Game.

2011 – 2012. Cultural Educator (Curriculum Development Specialist). Full-time Permanent. Sealaska Heritage Institute.

#### **AWARDS:**

2007 - 2008: Graduate Student of the Year. Department of Biology. Austin Peay State University.

#### **GRANTS AND FELLOWSHIPS:**

2014: United States Forest Service and Wrangell Sportsman's Association; Camp'Phibian – A Wilderness Service Learning Experience. Alaska Herpetological Society. \$5,000

2014 – Present: Alaska Forum for the Environment; Community Environmental Education and Science through Youth Involvement. Alaska Herpetological Society. \$5,000

2013 – Present: National Park Service Grant; Amphibian Outreach, Education and Citizen Science in Rural Alaska. Alaska Herpetological Society. \$5,000

2009 – Present: National Science Foundation (NSF); Integrated Graduate Experience and Research Traineeship. \$60,000

2011 – 2013: Research Scholar. Sealaska Heritage Institute – Juneau, AK. \$5,000

2013: Alaska Experimental Program to Stimulate Competitive Research (EPSCOR); Grant to fund graduate student research involving Alaska Native tribal authorities. \$5,000

2012: Alaska Experimental Program to Stimulate Competitive Research (EPSCOR); Graduate Student Research Fellowship. \$10,000

2012: Alaska Center for Global Change and Arctic Systems Research; Student Grant Competition. \$5,000

2007-2008: Tennessee Wildlife Resources Agency; Grant to evaluate reintroduction program for the Alligator Snapping Turtle. \$60,000

#### **INVITED TALKS:**

2015. United States Forest Service - Wrangell Ranger District. Chautauqua Lecture Series. Stikine River Chinook Local and Traditional Knowledge Project. Wrangell, AK.

2014. U.S. Fish and Wildlife Service Office of the Science Advisor. The Wildlife Society. Human-Amphibian Interactions in the North: Utilizing Local Knowledge and Citizen Science in Herpetological Research. Pittsburgh, PA. Oral Presentation and Panel Discussion.

2014. United States Forest Service - Wrangell Ranger District. Chautauqua Lecture Series. Amphibians of Alaska. Wrangell, AK.

2013. Alaska Herpetological Society. Guest Lecture Series. Amphibians of Alaska. Petersburg, AK.

2012. Say Yes to STEM in Schools (SYSTEMS). Guest Lecture Series. Amphibians of Alaska. Klawock, AK; Craig, AK; Metlakatla, AK.

2010. United States Forest Service - Wrangell Ranger District. Campfire Lecture Series. Alaska's Amphibians and Reptiles. Wrangell, AK.

2010. Rainforest Education Society. Frogs, Salamanders, Turtles and People – Alaska's Slimy Secrets. Cloayoquot Field Station – Tofino Botanical Gardens, Tofino, British Columbia.

### **CONFERENCE PRESENTATIONS:**

2015. Society of Ethnobiology. Herpetological Citizen Science and Service-learning in Rural Southeast Alaska. Oral Presentation.

2015. Society of Ethnobiology. Utilizing Local and Traditional Knowledge (LTK) to better understand Stikine River Chinook Populations Over Time: a case study from Wrangell and Petersburg. Oral Presentation.

2015. Alaska Anthropological Association. Employing Technology in the Field: The Subsistence App. Oral Presentation.

2014. The Wildlife Society. Human-Amphibian Interactions in the North: Utilizing Local Knowledge and Citizen Science in Herpetological Research. Oral Presentation.

2014. Alaska Chapter of the American Fisheries Society. Human-Amphibian Interactions in the North: a detriment or an opportunity for Alaska's Native Species? Oral Presentation.

2012. Alaska Herpetological Society. Amphibians in Stikine Kiks.adi Culture and the Ability of Indigenous Knowledge to Inform the Field of Herpetology. Oral Presentation.

2012. Alaska EPSCOR All-Hands Meeting. Amphibians and Reptiles in Alaska? Utilizing Community Knowledge, Indigenous Knowledge, Citizen Science Projects, and Western Science Inventories in the Study of Northern Herpetofauna. Poster Presentation.

2008. Association of Southeastern Biologists. Preliminary observations on habitat preference, movement patterns and survival of introduced juvenile Alligator Snapping Turtles (*Macrochelys temminckii*). Poster Presentation.

2008. World Congress of Herpetology, Manaus, Brazil. Observations on habitat preference, movement patterns, and survival of introduced juvenile Alligator Snapping Turtles (*Macrochelys temminckii*). Oral Presentation.

2008. Tennessee Academy of Science. Surfacing behavior in captive juvenile Alligator Snapping Turtles (*Macrochelys temminckii*) under three temperature regimes. Poster Presentation.

2008. Tennessee Herpetological Society. The structure and composition of turtle assemblages in the main channel and an adjacent slough of the Wolf River, Fayette County, Tennessee. Poster Presentation.

2007. Tennessee Herpetological Society. A preliminary report on the structure and composition of a West Tennessee freshwater turtle assemblage. Oral Presentation.

2007. Tennessee Herpetological Society. Preliminary observations on habitat preference, movement patterns and survival of the Alligator Snapping Turtle (*Macrochelys temminckii*). Poster Presentation.

2007. Tennessee Academy of Sciences. Preliminary observations on habitat preference, movement patterns and survival of introduced juvenile Alligator Snapping Turtles (*Macrochelys temminckii*). Oral Presentation.

### **SERVICE TO PROFESSION:**

2012 – Present: Executive Officer / Charter Member. Alaska Herpetological Society.

2010 - 2011: Chair. Alaska Amphibian Working Group.

2009 - 2010: President / Charter Member. Alumni Chapter of The Wildlife Society at Austin Peay State University.

2007 - 2008: President / Charter Member. Student Chapter of The Wildlife Society at Austin Peay State University.

2005 – 2006: President. / Charter Member. Student Chapter of The Wildlife Society at the Pennsylvania State University.

### **PROFESSIONAL AFFILIATIONS:**

Society for the Study of Amphibians and Reptiles  
Society for Northwest Vertebrate Biology  
Society of Ethnobiology  
Partners in Amphibian and Reptile Conservation  
The Wildlife Society

### **MEDIA COVERAGE:**

Rudy, Dan. "Local scouts reprise role as citizen scientists" *Wrangell Sentinel* 28 May 2015: 5. Print.

O'Connor, Brian. "Under Logs: The not so hidden wildlife of Southeast Alaska" *Wrangell Sentinel* 12 June 2014: 16. Print.

Naomi's Nightmares of Nature. "Alaska – featuring strange and unusual animals in Alaska" *British Broadcasting Company*. May 2014: Series 2 Episode 1. Television.

Clayton, Kyle. "Under Logs: The not so hidden wildlife of Southeast Alaska" *Petersburg Pilot* 21 November 2013: 3. Print.

Bakker, Theresa. Crowdfunding fuels amphibian survey field work. University of Alaska Fairbanks. 8 May 2013. Web. Available at <http://uafcornerstone.net/crowdfunding/>.

Feinberg, Robbie. *Elusive Amphibians Chronicled Along Stikine*. KFSK. Petersburg, Alaska, 14 June 2012: 3. Radio.

Knight, Greg. "Ream, Golf Course Partner in Frog Study." *Wrangell Sentinel* 14 June 2012: 7. Print.

Mcavoy, Kaitlyn. "What Do You Know about Amphibians?" *Wrangell Sentinel* 2 Feb. 2012: 7. Print.

Ream, Joshua. "Interested in Becoming a Citizen Scientist?" *Wrangell Sentinel* 24 Mar. 2011: 11. Print.

Long, Ryan. "Josh Ream Studies Reptiles, Amphibians, and Their Cultural Impacts." *Wrangell Sentinel* 15 July 2010: 1. Print.

Scifo, Dan. "Ligonier Native Helps Snapping Turtles Survive." *Bulletin Weekend* [Latrobe] 21 Sept. 2008, Volume 106 (234): 1+. Print.

#### **EXTRACURRICULAR UNIVERSITY SERVICE:**

2017 – Present. Secretary. Sand Lake Community Council. Anchorage, AK.

2009 – 2010. Board Member. Sigma Phi Epsilon Alumni Chapter. University of Alaska Fairbanks.

2007 – 2008. Member. Sustainable Campus Fee Committee. Austin Peay State University.

2007. Senator. Student Government Association. Austin Peay State University.

2005 – 2006. Senator. Undergraduate Student Government. Pennsylvania State University.

#### **RELATED PROFESSIONAL SKILLS:**

GIS & Remote Sensing

Bear & Firearm Safety Certification

Certified in Wilderness First Aid, NOLS

Certified Avian Technician, Pennsylvania Department of Agriculture

Certified in Radio Telemetry through Advanced Telemetry Service (ATS)

Certified through Project WILD & WET in integrating Wildlife Education in K-12 curriculum

Rabies Vector Species Certified

Retro-orbital rodent phlebotomy through PSU Centralized Biological Services

#### **COURSES PREPARED TO TEACH:**

Herpetology

Ornithology

Biology

Research Methods (Natural Sciences / Social Sciences / Interdisciplinary)

Ecology

Anatomy and Physiology

Resilience and Adaptation

Anthropology

Alaska Native Cultures

Pedagogy



**LANGUAGES:**

English: Native Speaker  
Spanish: Conversational

**REFERENCES:***ACADEMIC*

Juan Andres Lopez, Ph.D.  
Assistant Professor; Museum Curator  
School of Fisheries and Ocean Sciences  
University of Alaska Museum  
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Fairbanks, AK 99775  
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*PROFESSIONAL*

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Updated: 10 February 2017