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Professional Profile:

Dr. Parham is the President of Parham & Associates Environmental Consulting, LLC. in Gallatin, TN and also serves as a research hydrologist and aquatic biologist with Bishop Museum in Honolulu, HI. Dr. Parham has 21 years of experience in the fisheries and water management profession with a focus on instream flow issues, habitat use and availability, and fish passage studies. Dr. Parham is an expert developer of Geographic Information System (GIS) models that integrate essential components of hydrology, geomorphology, and fish ecology to enable improved use of freshwaters while protecting the natural environment. He has wide ranging field experiences including work in most of the continental United States with extensive work in many rivers east of the Rocky Mountains. Additionally, he works in the Hawaiian and Micronesian islands and across the south coast of China. Dr. Parham has worked in collaboration with a wide variety of people and institutions, including international, federal, state, and municipal governmental agencies, university researchers, NGOs, private resource use interests, and Native American groups. He has taught at the university level, led field crews, advised students, moderated conferences, facilitated group modeling efforts, and given interviews for newspaper and radio media. Dr. Parham is responsible for project management including grant acquisition, budgeting and purchasing, employee hiring and supervision, and project completion, presentation, and publication. Overall, Dr. Parham designs and delivers coherent projects using the latest technologies to provide solutions to difficult resource management conflicts.

Education:

2002-2005	Post-Doctoral Research Associate, University of Nebraska-Lincoln
2002	Ph.D., Biological Sciences, Louisiana State University
1995	M.S., Biology, University of Guam
1989	B.S., Fisheries Management, Virginia Polytechnic Institute and State University

Professional Experience:

2008-present President, Parham and Associates Environmental Consulting, LLC., Gallatin, TN
2005-present Hydrologist and Aquatic Biologist, Bishop Museum, Honolulu, HI
2003 Assistant Coordinator, China Tropical Lands Project, Guangzhou, China
2002-2005 Instructor, University of Nebraska – Lincoln
2002-2005 Postdoctoral Research Associate, University of Nebraska – Lincoln
1998-2001 Graduate Research Assistant, Louisiana State University
1997 Graduate Teaching Assistant, Louisiana State University
1997 Graduate Curatorial Assistant, Louisiana State University
1993-1996 Graduate Research Assistant, University of Guam
1993-1994 Graduate Teaching Assistant, University of Guam
1991-1992 Biologist, Environmental Systems Planners, Inc., Naples, FL.

University Courses Taught:

GIS in Natural Resources, University of Nebraska
GIS Modeling of Fish Habitats and Stream Hydrology, University of Nebraska
Fisheries Biology Class, University of Nebraska
Natural Resources Seminar, University of Nebraska
Introductory Biology Laboratory, Louisiana State University
Environmental Biology Laboratory, University of Guam

Publications:

Books

- Parham, J.E.,** G.R. Higashi, E.K. Lapp, D.G.K. Kuamo'o, R.T. Nishimoto, S. Hau, D.A. Polhemus, J.M. Fitzsimons, and W.S. Devick. 2008. *Atlas of Hawaiian Watersheds and their Aquatic Resources: Island of Kaua'i*. Bishop Museum and Division of Aquatic Resources, Department of Land and Natural Resources, State of Hawai'i. 614 p.
- Parham, J.E.,** G.R. Higashi, E.K. Lapp, D.G.K. Kuamo'o, R.T. Nishimoto, S. Hau, D.A. Polhemus, J.M. Fitzsimons, and W.S. Devick. 2008. *Atlas of Hawaiian Watersheds and their Aquatic Resources: Island of O'ahu*. Bishop Museum and Division of Aquatic Resources, Department of Land and Natural Resources, State of Hawai'i. 672 p.
- Parham, J.E.,** G.R. Higashi, E.K. Lapp, D.G.K. Kuamo'o, R.T. Nishimoto, S. Hau, D.A. Polhemus, J.M. Fitzsimons, and W.S. Devick. 2008. *Atlas of Hawaiian Watersheds and their Aquatic Resources: Island of Molokai'i*. Bishop Museum and Division of Aquatic Resources, Department of Land and Natural Resources, State of Hawai'i. 420 p.
- Parham, J.E.,** G.R. Higashi, E.K. Lapp, D.G.K. Kuamo'o, R.T. Nishimoto, S. Hau, D.A. Polhemus, J.M. Fitzsimons, and W.S. Devick. 2008. *Atlas of Hawaiian Watersheds and their Aquatic Resources: Island of Maui*. Bishop Museum and Division of Aquatic Resources, Department of Land and Natural Resources, State of Hawai'i. 866 p.

Parham, J.E., G.R. Higashi, E.K. Lapp, D.G.K. Kuamo'o, R.T. Nishimoto, S. Hau, D.A. Polhemus, J.M. Fitzsimons, and W.S. Devick. 2008. *Atlas of Hawaiian Watersheds and their Aquatic Resources: Island of Hawai'i*. Bishop Museum and Division of Aquatic Resources, Department of Land and Natural Resources, State of Hawai'i. 1,262 p.

Book Chapters

Fitzsimons, J. M., R. T. Nishimoto, and **J. E. Parham**. 2008. Stream ecosystems. Pp. 100-132. *In: D. Mueller-Dombois, K.W. Bridges, and C.C. Daehler, eds. Biodiversity assessment of tropical island ecosystems: PABITRA manual for interactive ecology and management.* Bishop Museum, Honolulu.

Peer-Reviewed Publications

Fitzsimons, J. M., R.T. Nishimoto, and **J.E. Parham**. 2008. Long-term ecological research and field methods for stream use decisions among oceanic islands of the tropical Pacific. *Micronesica* 40:87-100. (Proceedings of the Symposium on Long-Term Ecological Research in Pacific Ecosystems: A Focus of the Pacific-Asia Biodiversity Transect (PABITRA). 21st Pacific Science Congress, June 2007, Okinawa Japan. C.C. Daehler, ed.

Shuman, D.A., **J.E. Parham**, and E.J. Peters. 2007. Stock characteristics of shovelnose sturgeon in the lower Platte River, Nebraska. *Journal of Applied Ichthyology*. 23 (2007), 484–488

Swigle, B.D., **J.E. Parham**, and E.J. Peters. 2007. Movement and Habitat Use by Shovelnose and Pallid Sturgeon in the Lower Platte River, Nebraska. *Transactions of the American Fisheries Society*.

Kuamo'o, D.G.K., G.R. Higashi, and **J.E. Parham**. 2007. Structure of the Division of Aquatic Resources Survey Database and use with a Geographic Information System. *In: Biology of Hawaiian Streams and Estuaries*, N.L. Evenhuis & J.M. Fitzsimons, eds. Bishop Museum Bulletin in Cultural and Environmental Studies 3:315-322.

Steinauer, M.L., **J.E. Parham**, and B.B. Nickol. 2006. Geographic analysis of host use, development, and habitat use of an acanthocephalan species, *Leptorhynchoides thecatus*. *Journal of Parasitology*. 92(3): 464-472.

Parham, J.E. 2005. Aquatic Survey Techniques on Oceanic Islands: Important Design Considerations for the PABITRA Methodology. *Pacific Science*. 59:2. pgs 283-291.

Fitzsimons, J.M., **J.E. Parham**, L.K. Benson, M.G. McRae, and R.T. Nishimoto. 2005. Biological Assessment of Kahana Stream, Island of O'ahu, Hawai'i, with the Use of Procedures from the PABITRA Manual for Interactive Ecology and Management. *Pacific Science*. 59:2. pgs 273-281.

Parham, J.E. 2002. Spatial models of Hawaiian streams and stream fish habitats. Ph.D. Dissertation, Louisiana State University, Museum of Natural Science, Baton Rouge, LA. 155 p.

Fitzsimons, J.M., **J.E. Parham**, and R.T. Nishimoto. 2002. Similarities in behavioral ecology among amphidromous and catadromous fishes on the oceanic islands of Hawai'i and Guam. *Environmental Biology of Fishes*. 65:123-129.

Nelson, S.G., **J.E. Parham**, R.B. Tibbatts, F.A. Camacho, T.A. Leberer, and B.D. Smith. 1997. Distributions and microhabitats of the amphidromous gobies in streams of Micronesia. *Micronesica*. pg 83-91.

Parham, J.E. 1995. Habitat use by an assemblage of tropical oceanic island streamfishes. M.S. Thesis, University of Guam Marine Laboratory, Mangilao, Guam. 54 p.

Technical Reports

Parham, J.E. 2011. Environmental Data Review of the NHAAP database: Final Report for ORNL NHAAP team. Parham & Associates Environmental Consulting, LLC. 57 p.

Parham, J.E. 2010. Technical Addendum to the Yellowstone River Intake Diversion Scientific Review. Compiled by PBS&J for Bureau of Reclamation. Billings, MT. 85 p.

Anders P.J., R.C.P. Beamesderfer, J.E. Garvey, **J.E. Parham**, and E.J. Peters. 2009. Intake Diversion Dam Modification, Lower Yellowstone Project: Science Review Report. Compiled by PBS&J for Bureau of Reclamation. Billings, MT. 147 p.

Parham, J.E., G.R. Higashi, R.T. Nishimoto, S. Hau, D.G.K. Kuamo'o, L.K. Nishiura, T.S. Sakihara, T.E. Shimoda and T.T. Shindo. 2009. The Use of Hawaiian Stream Habitat Evaluation Procedure to Provide Biological Resource Assessment in Support of Instream Flow Standards for East Maui Streams. Division of Aquatic Resources and Bishop Museum. Honolulu, HI. 104 p.

Higashi, G.R., **J.E. Parham**, E.K. Lapp, S. Hau, D.G.K. Kuamo'o, L.K. Nishiura, T.T. Shindo, T.S. Sakihara, T.E. Shimoda, R.T. Nishimoto, and D.A. Polhemus. 2009. Report on Kolea Stream, Maui, Hawai'i. Division of Aquatic Resources and Bishop Museum. Honolulu, HI. 36 p.

Higashi, G.R., **J.E. Parham**, E.K. Lapp, S. Hau, D.G.K. Kuamo'o, L.K. Nishiura, T.T. Shindo, T.S. Sakihara, T.E. Shimoda, R.T. Nishimoto, and D.A. Polhemus. 2009. Report on Waikamoi Stream, Maui, Hawai'i. Division of Aquatic Resources and Bishop Museum. Honolulu, HI. 44 p.

Higashi, G.R., **J.E. Parham**, E.K. Lapp, S. Hau, D.G.K. Kuamo'o, L.K. Nishiura, T.T. Shindo, T.S. Sakihara, T.E. Shimoda, R.T. Nishimoto, and D.A. Polhemus. 2009. Report on Puohokamoa Stream, Maui, Hawai'i. Division of Aquatic Resources and Bishop Museum. Honolulu, HI. 32 p.

Higashi, G.R., **J.E. Parham**, E.K. Lapp, S. Hau, D.G.K. Kuamo'o, L.K. Nishiura, T.T. Shindo, T.S. Sakihara, T.E. Shimoda, R.T. Nishimoto, and D.A. Polhemus. 2009. Report on Punalau Stream, Maui, Hawai'i. Division of Aquatic Resources and Bishop Museum. Honolulu, HI. 32 p.

Higashi, G.R., **J.E. Parham**, E.K. Lapp, S. Hau, D.G.K. Kuamo'o, L.K. Nishiura, T.T. Shindo, T.S. Sakihara, T.E. Shimoda, R.T. Nishimoto, and D.A. Polhemus. 2009. Report on Honomanu Stream, Maui, Hawai'i. Division of Aquatic Resources and Bishop Museum. Honolulu, HI. 64 p.

Higashi, G.R., **J.E. Parham**, E.K. Lapp, S. Hau, D.G.K. Kuamo'o, L.K. Nishiura, T.T. Shindo, T.S. Sakihara, T.E. Shimoda, R.T. Nishimoto, and D.A. Polhemus. 2009. Report on Nua'ailua Stream, Maui, Hawai'i. Division of Aquatic Resources and Bishop Museum. Honolulu, HI. 56 p.

Higashi, G.R., **J.E. Parham**, E.K. Lapp, S. Hau, D.G.K. Kuamo'o, L.K. Nishiura, T.T. Shindo, T.S. Sakihara, T.E. Shimoda, R.T. Nishimoto, and D.A. Polhemus. 2009. Report on 'Ohi'a Stream, Maui, Hawai'i. Division of Aquatic Resources and Bishop Museum. Honolulu, HI. 38 p.

Higashi, G.R., **J.E. Parham**, E.K. Lapp, S. Hau, D.G.K. Kuamo'o, L.K. Nishiura, T.T. Shindo, T.S. Sakihara, T.E. Shimoda, R.T. Nishimoto, and D.A. Polhemus. 2009. Report on West Wailua Iki Stream, Maui, Hawai'i. Division of Aquatic Resources and Bishop Museum. Honolulu, HI. 57 p.

Higashi, G.R., **J.E. Parham**, E.K. Lapp, S. Hau, D.G.K. Kuamo'o, L.K. Nishiura, T.T. Shindo, T.S. Sakihara, T.E. Shimoda, R.T. Nishimoto, and D.A. Polhemus. 2009. Report on East Wailua Iki Stream, Maui, Hawai'i. Division of Aquatic Resources and Bishop Museum. Honolulu, HI. 52 p.

Higashi, G.R., **J.E. Parham**, E.K. Lapp, S. Hau, D.G.K. Kuamo'o, L.K. Nishiura, T.T. Shindo, T.S. Sakihara, T.E. Shimoda, R.T. Nishimoto, and D.A. Polhemus. 2009. Report on Kopili'ula Stream, Maui, Hawai'i. Division of Aquatic Resources and Bishop Museum. Honolulu, HI. 60 p.

Higashi, G.R., **J.E. Parham**, E.K. Lapp, S. Hau, D.G.K. Kuamo'o, L.K. Nishiura, T.T. Shindo, T.S. Sakihara, T.E. Shimoda, R.T. Nishimoto, and D.A. Polhemus. 2009. Report on Waiohue Stream, Maui, Hawai'i. Division of Aquatic Resources and Bishop Museum. Honolulu, HI. 60 p.

Higashi, G.R., **J.E. Parham**, E.K. Lapp, S. Hau, D.G.K. Kuamo'o, L.K. Nishiura, T.T. Shindo, T.S. Sakihara, T.E. Shimoda, R.T. Nishimoto, and D.A. Polhemus. 2009. Report on Paakea Gulch, Maui, Hawai'i. Division of Aquatic Resources and Bishop Museum. Honolulu, HI. 52 p.

Higashi, G.R., **J.E. Parham**, E.K. Lapp, S. Hau, D.G.K. Kuamo'o, L.K. Nishiura, T.T. Shindo, T.S. Sakihara, T.E. Shimoda, R.T. Nishimoto, and D.A. Polhemus. 2009. Report on Kapa'ula Gulch, Maui, Hawai'i. Division of Aquatic Resources and Bishop Museum. Honolulu, HI. 34 p.

Higashi, G.R., **J.E. Parham**, E.K. Lapp, S. Hau, D.G.K. Kuamo'o, L.K. Nishiura, T.T. Shindo, T.S. Sakihara, T.E. Shimoda, R.T. Nishimoto, and D.A. Polhemus. 2009. Report on Hanawi Stream, Maui, Hawai'i. Division of Aquatic Resources and Bishop Museum. Honolulu, HI. 46 p.

Higashi, G.R., **J.E. Parham**, E.K. Lapp, S. Hau, D.G.K. Kuamo'o, L.K. Nishiura, T.T. Shindo, T.S. Sakihara, T.E. Shimoda, R.T. Nishimoto, and D.A. Polhemus. 2009. Report on Makapipi Stream, Maui, Hawai'i. Division of Aquatic Resources and Bishop Museum. Honolulu, HI. 52 p.

Parham, J.E. 2008. Development of a Database Modeling Tool to Predict Aquatic Species Distributions within Hawaiian Streams. Division of Aquatic Resources, DLNR, State of Hawaii. 56 p.

Parham, J.E. 2008. Development of Database Reporting Tools and Results from DAR Rapid Bioassessment Surveys Conducted on Nine North Shore Streams, Oahu, Hawaii. Division of Aquatic Resources, DLNR, State of Hawaii. 55 p.

King, C., E.K. Lapp, **J.E. Parham**, G.R. Higashi, S. Hau and D.G.K. Kuamo'o. 2008. Survey report on Waihe'e Stream, Maui, Hawai'i. Division of Aquatic Resources, DLNR, State of Hawaii.

King, C., E.K. Lapp, **J.E. Parham**, G.R. Higashi, S. Hau and D.G.K. Kuamo'o. 2008. Survey report on Pi'inaau Stream, Maui, Hawai'i. Division of Aquatic Resources, DLNR, State of Hawaii.

King, C., E.K. Lapp, **J.E. Parham**, G.R. Higashi, S. Hau and D.G.K. Kuamo'o. 2008. Survey report on Waiehu Stream, Maui, Hawai'i. Division of Aquatic Resources, DLNR, State of Hawaii.

King, C., E.K. Lapp, **J.E. Parham**, G.R. Higashi, S. Hau and D.G.K. Kuamo'o. 2008. Survey report on Honopou Stream, Maui, Hawai'i. Division of Aquatic Resources, DLNR, State of Hawaii.

- King, C., E.K. Lapp, **J.E. Parham**, G.R. Higashi, S. Hau and D.G.K Kuamo'o. 2008. Survey report on Waiokamilo Stream, Maui, Hawai'i. Division of Aquatic Resources, DLNR, State of Hawaii.
- Higashi, G.R., **J.E. Parham**, S. Hau, R.T. Nishimoto, D.A. Polhemus, E.K. Lapp, L.K. Nishiura, T.T. Shindo, and T.S. Sakihara. 2008. Report on Honopou Stream, Maui. For the Commission on Water Resources Management. DLNR, Honolulu, HI. 50p.
- Higashi, G.R., **J.E. Parham**, S. Hau, R.T. Nishimoto, D.A. Polhemus, E.K. Lapp, L.K. Nishiura, T.T. Shindo, and T.S. Sakihara. 2008. Report on Hanehoi Stream, Maui. For the Commission on Water Resources Management. DLNR, Honolulu, HI. 46p.
- Higashi, G.R., **J.E. Parham**, S. Hau, R.T. Nishimoto, D.A. Polhemus, E.K. Lapp, L.K. Nishiura, T.T. Shindo, and T.S. Sakihara. 2008. Report on Piinaau Stream, Maui. For the Commission on Water Resources Management. DLNR, Honolulu, HI. 43p.
- Higashi, G.R., **J.E. Parham**, S. Hau, R.T. Nishimoto, D.A. Polhemus, E.K. Lapp, L.K. Nishiura, T.T. Shindo, and T.S. Sakihara. 2008. Report on Wailuanui Stream, Maui. For the Commission on Water Resources Management. DLNR, Honolulu, HI. 34p.
- Higashi, G.R., **J.E. Parham**, S. Hau, R.T. Nishimoto, D.A. Polhemus, E.K. Lapp, L.K. Nishiura, T.T. Shindo, and T.S. Sakihara. 2008. Report on Waiokamilo Stream, Maui. For the Commission on Water Resources Management. DLNR, Honolulu, HI. 32p.
- Parham, J.E.** 2007. Hydrologic Analysis of the lower Platte River from 1954 -2004, with special emphasis on habitats of the Endangered Least Tern, Piping Plover, and Pallid Sturgeon. 2007. Nebraska Game and Parks Commission. Lincoln, NE. 175p.
- Peters, E.J. and **J.E. Parham**. 2007. Ecology and management of pallid sturgeon and sturgeon chub in the Platte River, Nebraska. Nebraska Game and Parks Commission. Lincoln, NE. 232 p.
- Parham, J.E.**, E.J. Peters, C.N. Reade, and J. Olnes. 2005. Ecology and management of pallid sturgeon and sturgeon chub in the lower Platte River. Final report May 2005. The Pallid Sturgeon and Sturgeon Chub Task Force. 544 p.
- Parham, J.E.** 2003. GIS Habitat Modeling of Native Hawaiian Stream Fishes: Project Report. Division of Aquatic Resources, Department of Land and Natural Resources, State of Hawaii.
- Fitzsimons, J.M., **J.E. Parham**, L.K. Benson, and M.G. McRae. 2002. Biological Assessment of Kahana Stream, Island of O'ahu: Final Report. Division of Aquatic Resources and Commission on Water Resources Management, Department of Land and Natural Resources, State of Hawaii.

- Peters, E.J., M. Kaminski, J. Olnes, **J.E. Parham**, C.N. Reade, R. Ruskamp, S. Sedlacek, D. Shuman, and B. Swigle. 2002. Ecology and management of pallid sturgeon and sturgeon chub in the lower Platte River: Progress report May 2001 / May 2002. The Pallid Sturgeon and Sturgeon Chub Task Force.
- Peters, E.J., J. Olnes, **J.E. Parham**, C.N. Reade, R. Ruskamp, D. Shuman, V.A. Snook, and B. Swigle. 2001. Ecology and management of pallid sturgeon and sturgeon chub in the lower Platte River: Progress report May 2000 / May 2001. The Pallid Sturgeon and Sturgeon Chub Task Force.
- Olnes, J., R. Ruskamp, **J.E. Parham**, and E.J. Peters. 2001. Water quality monitoring within the lower Platte River Basin: Annual report for 2000/2001. US Fish and Wildlife Service.
- Smith, B.D., **J.E. Parham**, and S.G. Nelson. 1996. Annual report on the monitoring of the Ugum River Weir for the Public Utility of Guam 1995.
- Nelson, S.G., B.D. Smith, **J.E. Parham**, B. Tibbatts, and F. Camacho. 1995. A survey of the streamfishes of the upper reaches of the Ngermeskang River, Palau, with recommendations for conservation and monitoring. University of Guam Marine Laboratory, Technical Report # 100, pp. 18.

Computer Models, Spatial Datasets, and Databases

- Parham, J.E.** 2010. [Boat Ramps of Old Hickory Lake, Tennessee](#). Part of a larger recreational fisheries project that used google maps to provide boat ramp information to anglers. Parham & Associates Environmental Consulting, TN.
- Parham, J.E.** 2009. Hawaiian Stream Habitat Evaluation Protocol. A multi-spatial model to provide standardized evaluation for stream animal habitat in Hawaiian streams to assess the impacts of land use change, flow diversion, habitat manipulation, and water quality issues. Hawaii Division of Aquatic Resources
- Parham, J.E.** 2008. Predictive habitat models for Hawaiian stream fishes. GIS models that show expected distributions of stream fishes throughout Hawaii. Version 1. Hawai'i Division of Aquatic Resources.
- Parham, J.E.** 2008. Website for the Atlas of Hawaiian Watersheds and Their Aquatic Resources. www.HawaiiWatershedAtlas.com. Bishop Museum and Division of Aquatic Resources, Honolulu, HI. Contains information for 430 individual watersheds on five islands in Hawaii.
- Parham, J.E.** 2008. Database for the Pallid Sturgeon Literature Survey. A searchable database by area, subject category, life history stage, and author containing pallid sturgeon literature information. Platte River Recovery Implementation Program.

- Parham, J.E.** 2008. Reporting application for DAR Point Quadrat Surveys. Custom reporting forms for rapid survey report generation. Version 1. Hawai'i Division of Aquatic Resources.
- Parham, J.E.** 2008. Database Reporting Application for DAR Rapid Bioassessment Surveys. Custom reporting forms for rapid survey report generation. Version 1. Hawai'i Division of Aquatic Resources.
- Parham, J.E.** 2006. Reach Classification for Hawaiian Streams. A GIS model that classified streams into reaches using their major geomorphological characteristics. Version 1. Hawai'i Division of Aquatic Resources.
- Parham, J.E.** 2005. Lower Platte River Habitat Availability Model. A GIS-based river discharge to habitat availability model for the lower 150 km of the Platte River. Version 1.0.
- Parham, J.E.** 2005. Lower Platte River Connectivity Model. A GIS-based river discharge to river connectivity model for fish passage for the lower 150 km of the Platte River. Version 1.0.
- Parham, J.E.** and J. Gilsdorf. 2005. UNL Deer Project Database. Designed database for long term tracking of deer throughout Nebraska for behavior, habitat use, and Chronic Wasting Disease studies by the University of Nebraska - School of Natural Resources. Version 1.0
- Parham, J.E.,** J. Fisher, and T. Barada. 2004. Nebraska Statewide Stream Survey Database. Designed database for a 3 year statewide stream surveys of 119 streams in Nebraska for the University of Nebraska - School of Natural Resources and Nebraska Game and Parks Commission. Version 1.0
- Parham, J.E.** 2002 and continuous updates to 2005. Lower Platte River Fish Survey Database. Designed database for integration of multiple projects focused on endangered fishes in the lower Platte River. University of Nebraska - School of Natural Resources. Versions 1 to 6.0.
- Parham, J.E.** 2003. Statewide Instream Flow Estimator. A GIS model for estimating stream discharge from annual rainfall, solar radiation, and topography data for Hawaiian streams. Version 1. Hawai'i Division of Aquatic Resources.
- Parham, J.E.** 2003. Hawaii Stream Type Classification Model. A GIS model that classified streams by their major geomorphological characteristics based on data from 150 Hawaiian streams. Version 1. Hawai'i Division of Aquatic Resources.

Parham, J.E., D.G.K Kuamo'o, and G.R. Higashi. 2002-2010. Hawai'i Division of Aquatic Resources Surveys Database. A database to store historical and current fisheries surveys in nearshore, estuarine, and stream environments. Versions 1-4. Hawai'i Division of Aquatic Resources.

Presentations:

Parham, J.E. 2011. Predicting Recreational Angler Success: Project Update for Old Hickory Lake, Tennessee. Annual Meeting of the Tennessee Chapter of the American Fisheries Society. Montgomery Bell State Park, TN. (Invited speaker)

Parham, J.E. 2011. Multi-Spatial Modeling to Support Water Resource Planning and Management. Oak Ridge National Laboratory. Oak Ridge, TN. (Invited speaker)

Parham, J.E. 2010. Multi-Spatial Modeling to support Instream Flow Planning and Management. Meeting of the Tennessee Instream Flow Group. Nashville, TN. (Invited speaker)

Parham, J.E. 2010. Synthesizing data from multiple sources to support the Hawaii Fish Habitat Partnership efforts. Annual Meeting of the American Fisheries Society, Pittsburgh, PA. (Invited speaker)

Parham, J.E. 2010. Predicting Recreational Angler Success: A Test Case for Old Hickory Lake, Tennessee. Annual Meeting of the Tennessee Chapter of the American Fisheries Society. Falls Creek Falls State Park, TN. (Invited speaker)

Parham, J.E. 2009. Annual occurrence of suitable pallid sturgeon habitat and habitat connectivity in relation to historic river discharge throughout the lower Platte River, Nebraska. Sturgeon Symposium. Annual Meeting of the American Fisheries Society, Nashville, TN. (Invited speaker)

Parham, J.E., G.R. Higashi, E.K. Lapp, D.G.K. Kuamo'o, R.N. Nishimoto, S. Hau, D.A. Polhemus, J.M. Fitzsimons, and W.S. Devick. 2009. Synthesizing results from current and historical stream surveys in Hawaii to determine fish distribution and habitat use at multiple spatial scales. National Fish Habitat Mapping Symposium. Annual Meeting of the American Fisheries Society, Nashville, TN. (Invited speaker)

Parham, J.E. 2009. The use of GIS and database systems to facilitate collaboration and improve information flow in large fisheries projects. Tennessee Chapter of the American Fisheries Society. Montgomery Bell State Park, TN. (Invited speaker)

Peters, E.J. and **J.E. Parham.** 2009. Pallid Sturgeon Literature Review. Platte River Recovery Implementation Program. Columbus, NE. (Invited speaker)

- Parham, J.E.,** G.R. Higashi, E.K. Lapp, D.G.K. Kuamo'o, R.N. Nishimoto, S. Hau, D.A. Polhemus, J.M. Fitzsimons, and W.S. Devick. 2008. Atlas of Hawaiian Watersheds and Their Aquatic Resources – an important tool to aid in statewide watershed management. Workshop on the Ecology, Restoration, and Management of Hawaii Stream and Riparian Systems. Kaneohe, HI. (Invited speaker)
- Parham, J.E.,** G.R. Higashi, E.K. Lapp, D.G.K. Kuamo'o, R.N. Nishimoto, S. Hau, D.A. Polhemus, J.M. Fitzsimons, and W.S. Devick. 2008. Atlas of Hawaiian Stream Species – describing habitat and distribution of stream animals statewide. Workshop on the Ecology, Restoration, and Management of Hawaii Stream and Riparian Systems. Kaneohe, HI. (Invited speaker)
- Parham, J.E.,** G.R. Higashi, E.K. Lapp, D.G.K. Kuamo'o, R.N. Nishimoto, S. Hau, D.A. Polhemus, J.M. Fitzsimons, and W.S. Devick. 2008. Atlas of Hawaiian Watersheds and Their Aquatic Resources – an important tool to aid in statewide watershed management. Hawaii Conservation Conference. Honolulu, HI. (Invited speaker)
- Parham, J.E.,** G.R. Higashi, E.K. Lapp, D.G.K. Kuamo'o, R.N. Nishimoto, S. Hau, D.A. Polhemus, J.M. Fitzsimons, and W.S. Devick. 2008. Atlas of Hawaiian Stream Species – describing habitat and distribution of stream animals statewide. Hawaii Conservation Conference. Honolulu, HI. (Invited speaker)
- Parham, J.E.** 2007. DLNR Stream Program. Presentation for the special envoy representing the President of the United States. Honolulu, HI. (Invited speaker)
- Parham, J.E.** 2007. Rule of Thumb Instream Flow Standards. Division of Aquatic Resources and Commission on Water Resources Management. Honolulu, HI. (Invited speaker)
- Higashi, G.R., D.G.K. Kuamo'o, and **J.E. Parham.** 2006. Division of Aquatic Resources' Aquatics Surveys Database: Use and Applications. State of Hawaii Commission on Water Resources. Honolulu, HI. (Invited speaker)
- Parham, J.E.** 2005. Instream Flow Modeling for Hawaiian Streams. State of Hawaii Commission on Water Resources. Honolulu, HI. (Invited speaker)
- Parham, J.E.,** E.J. Peters, C.N. Reade, and J.J. Olnes. 2005. Ecology and management of pallid sturgeon and sturgeon chub in the lower Platte River. The pallid sturgeon and sturgeon chub task force. Columbus, NE. (Invited speaker)
- Parham J.E.,** 2005. The Basis for an Instream Flow Program in the Hawaiian Islands. Symposium on Hawaiian Streams and Estuaries. Hilo, HI. (Invited speaker)
- Kuamo'o, D.G.K., G.R. Higashi, and **J.E. Parham.** 2005. Structure of the Division of Aquatic Resources Surveys Database and Use with a Geographic Information System. Symposium on Hawaiian Streams and Estuaries. Hilo, HI. (Invited speaker)
- Parham, J.E.** 2005. Instream flows for sturgeon habitat and movement in the Platte River, Nebraska. Fisheries and Wildlife Departmental Seminar, University of Missouri. Columbia, MO. (Invited speaker)

- Peters, E.J., **Parham, J.E.**, and J.J. Olnes. 2005. Estimates of Shovelnose and Pallid Sturgeon Densities in the Platte River, Nebraska, 2000-2004. Scaphirhynchus Conference. St. Louis, MO. (Invited speaker)
- Parham, J.E.**, B.D. Swigle, and E.J. Peters. 2005. River Connectivity for Migrating Shovelnose Sturgeon in the Lower Platte River, Nebraska. Scaphirhynchus Conference. St. Louis, MO. (Invited speaker)
- Parham, J.E.**, B.D. Swigle, D.A. Shuman, V.A. Snook and E.J. Peters. 2005. The Relationship between River Discharge and Instream Habitat for Sturgeons in the Lower Platte River, Nebraska. Scaphirhynchus Conference. St. Louis, MO. (Invited speaker)
- Shuman, D.A., **J.E. Parham**, and E.J. Peters. 2005. Evaluation of the Condition, Distribution, Structure, and Growth of Shovelnose Sturgeon in the Lower Platte River, Nebraska. Scaphirhynchus Conference. St. Louis, MO. (Invited speaker)
- Parham, J.E.**, B.D. Swigle, D.A. Shuman, V.A. Snook, and E.J. Peters. 2004. Relationships between habitat availability and river discharge for *Scaphirhynchus* sturgeons in the lower Platte River, Nebraska. 4th World Fisheries Congress. Vancouver, BC.
- Parham, J.E.** 2004. Determining Suitable Habitat for Endangered Species in the Lower Platte River. US Fish and Wildlife Service. Grand Island, NE. (Invited speaker)
- Parham, J.E.** and E.J. Peters 2004. Instream Flow Estimation for Endangered Species in the Lower Platte River, Nebraska. Wildlife Club Seminar. Lincoln, NE. (Invited speaker)
- Parham, J.E.** 2003. Degraded Lands and Water Resources. International Workshop on Degraded Lands and Sustainable Agriculture. South China Agricultural University. Guangzhou, China. (Invited speaker)
- Parham, J.E.**, B.D. Swigle, D.A. Shuman, V.A. Snook, and E.J. Peters. 2003. Comparisons between river discharge and habitat availability for sturgeons in the lower Platte River, Nebraska. 64th Midwest Fish & Wildlife Conference. Kansas City, MO.
- Parham, J.E.** 2003. Statewide Instream Flow Estimations – Model version 1. Hawai'i Division of Aquatic Resources. Honolulu, HI. (Invited speaker)
- Parham, J.E.** 2003. Predicting instream habitat and reach occupancy for native Hawaiian stream fishes. Ecological Society of America's Annual Conference, Savannah, GA.
- Steinauer, M.L. and **J.E. Parham**. 2003. Geographic distribution of host and habitat use of an acanthocephalan parasite, *Leptorhynchoides thecatus*. Ecological Society of America's Annual Conference, Savannah, GA.

- Peters, E.J., **J.E. Parham**, D.A. Shuman, and B.D. Swigle. 2003. Ecology and management of pallid sturgeon and sturgeon chub in the lower Platte River, Nebraska. Pallid Sturgeon\ Sturgeon Chub Recovery Taskforce meeting. Ponca State Park, Ponca, NE.
- Peters, E.J., M.T. Kaminski, **J.E. Parham**, C.N. Reade, D.A. Shuman, B.D. Swigle, and L.A. Vrtiska. 2003. Current Research on Pallid Sturgeon in the lower Platte River, NE. Middle Basin Pallid Sturgeon Recovery Work Group, St. Louis, MO.
- Parham, J.E.** 2002. Habitat Modeling for Fish Conservation – Examples from Hawai'i and Nebraska, School of Natural Resources Sciences, University of Nebraska. Lincoln, NE. (invited speaker)
- Parham, J.E.** 2002. Pallid Sturgeon Habitat Availability Assessment on the Lower Platte River, Nebraska. Lower Platte River Corridor Alliance. Lincoln, NE. (Invited speaker)
- Parham, J.E.** 2002. The Ecology and Management of Sturgeon on the Lower Platte River, Nebraska. Papio-Missouri Natural Resource District. Omaha, NE. (Invited speaker)
- Parham, J.E.** 2002. Determining Habitat Availability on the Lower Platte River. Nebraska Game and Parks Commission. Lincoln, NE. (Invited speaker)
- Parham, J.E.** 2002. Multi-spatial Modeling and Instream Flow Management: an Example from Hawaiian Streams. Instream Flow Council Biennial Meeting. Crossnore, NC. (Invited speaker)
- Parham, J.E.** and JM Fitzsimons. 2002. Habitat Assessment and Geographic Information Systems. Hawaii Water Quality Conference. Honolulu, HI. (Invited speaker)
- Parham, J.E.** 2002. Spatial Models of Hawaiian Stream Fishes. Habitat Modeling Workshop. Pallid Sturgeon\ Sturgeon Chub Recovery Taskforce, Lincoln, NE. (Invited speaker)
- Kuamo'o, D.G.K. and **J.E. Parham**. 2002. Using ArcView 3.x to Edit USGS Attribute Tables with Tributary Codes for Use With HDAR Stream Database. Waipi'o Valley Conference, sponsored by Bishop Museum and USDA NRCS. Honolulu, HI, USA.
- Parham, J.E.** 2002. Summary and Recommendations from the Habitat Workshop – Determining Habitat Availability on the Lower Platte River. Pallid Sturgeon\ Sturgeon Chub Recovery Taskforce meeting. Gavins Point, NE.
- Parham, J.E.** 2002. Spatial Modeling at the Island Scale and its Implications on Larval Recruitment Dynamics. Hawai'i Division of Aquatic Resources. Honolulu, HI.
- Parham, JE.** 2002. Development of a Geospatial Database. Habitat Modeling Workshop. Pallid Sturgeon\ Sturgeon Chub Recovery Taskforce. Lincoln, NE.

- Parham, J.E** and J.M. Fitzsimons. 2001. Habitat Modeling for Native Hawaiian Stream Fishes. Annual Meeting of the American Fisheries Society. Phoenix, AZ.
- Parham, J.E.** 2001. Spatial Models of Hawaiian Streams and Stream Fish Habitats. Dissertation Exit Seminar, Louisiana State University Museum of Natural Sciences. Baton Rouge, LA.
- Parham, J.E** and J.M. Fitzsimons. 2001. The Use of Geographic Information Systems (GIS) in Water Resources Planning, Management and Allocation Issues in the Hawaiian Islands – Project Update. State of Hawaii Commission on Water Resources. Honolulu, HI.
- Parham, J.E.** and J.M. Fitzsimons. 2001. Spatial Modeling to Aid in Instream Flow determination of Native Hawaiian Stream Fishes. Annual Meeting of the Society of Conservation Biology. Hilo, HI.
- Parham, J.E.** and J.M. Fitzsimons. 2000. The Use of Geographic Information Systems (GIS) in Water Resources Planning, Management and Allocation Issues in the Hawaiian Islands. State of Hawaii Commission on Water Resources. Honolulu, HI.
- Parham, J.E.** 2000. The Spatial Ecology and Conservation of Native Hawaiian Stream Fishes. Ecology and Evolution Seminar at the University of Nebraska. Lincoln, NE.
- Parham, J.E.** and J.M. Fitzsimons. 2000. Multi-dimensional GIS: a Powerful Tool for the Conservation of Stream Fishes. GIS Symposium at the Annual Meeting of the American Fisheries Society, St. Louis, MO. (Invited speaker)
- Parham, J.E.** and J.M. Fitzsimons. 1999. Spatial Modeling of Habitat Dynamics for Native Hawaiian Stream Fishes. XVIII Pacific Science Congress. Sydney, Australia.
- Parham, J.E.** 1999. Revisiting the Niche as an Nth Dimensional Hypervolume: a Multi-dimensional GIS Analysis for the Conservation of Native Freshwater Fishes in the Hawaiian Islands. Louisiana State University Annual Biograds Symposium. Baton Rouge, LA.
- Parham, J.E** and J.M. Fitzsimons. 1999. A Multi-scale GIS Analysis for the Management of Native Freshwater Fishes in the Hawaiian Islands. Annual Meeting of the American Fisheries Society. Charlotte, NC.
- Parham, J.E.** and J.M. Fitzsimons. 1999. GIS Modeling Predicts Gain and Loss of Fish Habitat Associated with Changes of Flow in Hawaiian Streams. LSU Ecology Forum. Baton Rouge, LA.
- Parham, J.E.** 1998. Island Hopping in Paradise: An Ichthyologist in Micronesia. Audubon Society of Louisiana. Baton Rouge, LA.

Parham, J.E. 1997. Integrating GIS and Microhabitat Surveys for the Conservation of Native Fishes. Louisiana State University Museum of Natural Science. Baton Rouge, LA.

Nelson, S.G. and **J.E. Parham.** 1995. Diversity and Microhabitat: a Study of Stream Fishes of Micronesia. XVII Pacific Science Congress. Beijing, China.

Nelson, S.G. and **J.E. Parham.** 1994. Within Stream Distributions and Microhabitats of Micronesian Stream Fishes. Symposium on the Tropical Biosphere, University of the Ryukyus. Okinawa, Japan.

Professional Affiliations:

The American Fisheries Society

Tennessee Chapter

Nebraska Chapter

Fisheries Management Section

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Introduced Fish Section

Community of Science

Fellow at the Center for Great Plains Studies, University of Nebraska