

Curriculum Vitae: Jason Kenna Blackburn

Assistant Professor
Department of Geography and the Emerging Pathogens Institute
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EDUCATION:

- B.S. Physical Geography, LSU, 2001
- M.S. Geography, LSU, 2003
- PhD, Medical Geography, Minor- Pathobiological Sciences, LSU, 2006

M.S. Thesis title: *Characterizing spatially explicit patterns of antibiotic resistance in the marine environment using top-level predators.*

PhD Dissertation title: *Evaluating the spatial ecology of anthrax in North America: examining epidemiological components across multiple geographic scales using a GIS-based approach*

RESEARCH INTERESTS:

Disease ecology, wildlife diseases, ecological modeling (niche and distributional), GIS, advanced methods in spatial analysis, biogeography, wildlife telemetry, disease surveillance, field methods for spatial epidemiology

EMPLOYMENT:

- Assistant Professor, Geography and Emerging Pathogens Institute, University of Florida, 2009 - Present
- Assistant Professor, Geography, California State University Fullerton, 2007 – 2009
 - Director, Spatial Epidemiology and Ecology Research (SEER) Laboratory
 - Faculty Advisory Committee, Masters in Public Health (MPH) Program
 - Faculty Member – Environmental Studies Masters Program
- Research Associate 5 (Research Faculty), Director of FSUGIS, 2006 – 2007
- GIS/Modeling Consultant, 2005 – 2008
- Laboratory administrator, LSU WHOCC, 2004 – 2006
- Graduate Research Assistant, LSU WHOCC, 2001 - 2006
- State contact for NMFS shark nursery projects, LSU, 2002 – 2006
- Undergraduate field technician, LSU Coastal Fisheries Institute, 1999 – 2001
- Construction/Operator, Blackburn Drainage and Construction, 1998- 1999
- Animal Care Specialist, SeaWorld San Diego, 1996 – 1998
- Educator, SeaWorld San Diego, 1995- 1996

TEACHING POSTIONS:

- Instructor, Louisiana State University (Fall 2005)
 - Courses taught: physical geography
- Adjunct Instructor, Baton Rouge Community College (Fall 2003 – Spring 2005)
 - Courses taught: introductory geography, physical geography
 - Courses developed: 2-course sequence in physical geography for transfer to LSU

PROFESSIONAL ORGANIZATIONS:

- Association of American Geographers
- American Elasmobranch Society
 - Student Affairs Committee Member / Workshop Coordinator 2005 Meeting

AWARDS:

- Outstanding Adjunct Faculty Award – Baton Rouge Community College, Spring 2005
- Robert C. West Field Grant, LSU Dept of Geog/Anthro, Spring 2004. Field support to acoustically track yellowfin tunas in the presence of Louisiana offshore oil platforms. \$600.00
- Phi Zeta Day Research Award. Fall 2003. First Place Poster Award for work on mercury levels in yellowfin tunas \$300.00 (Lead author M.C. Holley)
- American Fisheries Society, LA Chapter. February 2002. Best student paper award “A re-examination of the status of *Fundulus majalis* and *Fundulus similis* \$50.00
- Robert C. West Field Grant, LSU Dept of Geog/Anthro, Fall 2001. To conduct shark research in Belize. \$600.00
- Baton Rouge Area Foundation, Spring 2001. To purchase telemetry equipment. \$6100.00
- Louisiana Sea Grant College Program, Undergraduate Research Opportunity Grant. Fall 2000. To conduct original research on shark movements in Louisiana. \$2000.00
- National Science Foundation, Research Experience for Undergraduates, Spring 2000. To conduct field palynological research in Bolivia (awarded to Dr. Kam-biu Liu, LSU). \$4700.00

GRANTS AND CONTRACTS:

- 2009 – Integrating GIS and PDA-GIS into field surveillance of *Bacillus anthracis* in the continental US. SAIC Corporation (\$15,000.00)
- 2009 – 2010 – Evaluating background levels of *Bacillus anthracis* in the environment: confirming ecological niche model estimates (*Funded; amount pending*)
- 2009 – 2013 Modeling the geography, ecology, and evolution of plague in central Asia and north America. MIDAS/NIH (CSUF Component \$448,938.00) *FUNDING PENDING*

- 2008 – 2009 Expanding the GIS capabilities of the Center for GIS, CPQMHI, Tashkent, Uzbekistan and development of an international conference on GIS for disease surveillance and spatial epidemiology. US Civilian Research and Development Foundation (\$54,000.00)
- 2008 Integrating programmatic GIS support into the Cooperative Biological Research Program, Defense Threat Reduction Agency. Funded through the Joint University Partnership, University of New Mexico (CSUF component ~340,000.00 Jan 2008 – Apr 2009)
- 2007 Implementing GIS and Field Support for IDHS Environmental Bioterrorism Detection Program (Scientific Applications International Corporation, \$15,000.00)
- 2007 Spatial Ecology, Social Factors, and Epidemiology of Selected Bacterial Diseases in Kazakhstan and Uzbekistan. U.S. Civilian Research and Development Foundation (\$43,736.00)
- 2007 – 2010 Habitat utilization by Greenland sharks in the Arctic. National Science Foundation. *Funding Pending* (JKB component ~ 89,500)
- 2006 - 2007. Ecological and Socio-economic Factors of Anthrax Foci Activity and Improvement of its Diagnosis and Prophylaxis in Kazakhstan and Uzbekistan (A. Curtis, Co-PI, M. Hugh-Jones, Co-PI, JKB- PI/Project director (~\$165,000) by Civilian Research and Development Foundation.
- 2005 – 2006. Ecological and Socio-economic Factors of Anthrax Foci Activity and Improvement of its Diagnosis and Prophylaxis in Kazakhstan (A. Curtis, PI, M. Hugh-Jones, Co-PI, JKB- Co-PI (~\$89,000 per year) by Civilian Research and Development Foundation.
- 2004 – 2005. Evaluating reproductive and hatchling success of the Louisiana gopher tortoises. \$12,489 (to M.A. Mitchell, PI; JKB Co-PI) by Louisiana Department of Wildlife and Fisheries.
- 2004 – 2005. Expanding the delineation of shark nursery grounds in Louisiana to estuarine complexes east of the Mississippi River Delta. \$7,100 (B.A. Thompson, PI; JKB Co-PI) by the National Marine Fisheries Service COASTSPAN
- 2001 – 2002. Utilizing GIS, telemetry, and remote sensing to understand migratory fish movements in Louisiana: An interdisciplinary approach to defining Essential Fish Habitats. \$9,932.00 (B.A. Thompson, PI; JKB grant author/Co-PI) by the Louisiana Sea Grant College Program's Program Development Fund.

PUBLICATIONS IN REVIEW:

Blackburn, J.K., Hugh-Jones, M.E., Hadfield, T., Mitchell, M.A., Curtis, A. Confirmation of *Bacillus anthracis* from flesh eating flies collected during a West Texas anthrax season. *Journal of Wildlife Diseases*. Accepted.

Aikembayev, A., Luhknova, L., Temiraliyeva, G., Meka-Mechenko, T., Pazilov, Y., Zakaryan, S., Denisov, J., Easterday, W.R., Van Ert, M.N., Keim, P., Hadfield, T., Francesconi, S., **Blackburn, J.K.**, Hugh-Jones, M.E. Historical distribution and molecular diversity of *Bacillus anthracis* in Kazakhstan. (Submitted: Emerging Infectious Diseases)

Aikembayev, A., Luhknova, L., Temiraliyeva, G., Pazilov, Y., Sansyzbayev, Y., Meka-Mechenko, T., Joyner, T.A., Kracalik, I.T., Hugh-Jones, M.E., **Blackburn, J.K.** Evaluating decadal persistence of anthrax and ecological affinities of *Bacillus anthracis* in Kazakhstan. (Submitting: International Journal of Health Geographics)

Timothy Andrew Joyner, Larissa Lukhnova, Yerlan Pazilov, Gulnara Temiralyeva, Alim Aikimbayev, Martin E. Hugh-Jones, **Jason K. Blackburn.** Modeling the potential geographic distribution of *Bacillus anthracis* under multiple climate change scenarios for Kazakhstan. (Submitting: PLoSone)

Ian T. Kracalik, Larissa Lukhnova, Alim Aikimbayev, Yerlan Pazilov, Gulnara Temiralyeva, **Jason K. Blackburn.** Retrospective and prospective spatio-temporal analyses of anthrax in Kazakhstan from 1950 – 2006. (Submitting: American Journal of Tropical Medicine and Hygiene)

Blackburn, J.K., Hugh-Jones, M.E., McNyset, K.M., Hunter, D. Field validation of predictive ecological niche models for *Bacillus anthracis*, evidence from a multi-species wildlife outbreak in western Montana. (Submitting: Journal of Wildlife Diseases)

Blackburn, J.K., Mitchell, M.A., Holley-Blackburn, M.C., Curtis, A., Thompson, B. Characterizing antibiotic resistance patterns in marine apex predators. Journal of Zoo and Wildlife Medicine. (Accepted with Revision and Re-review)

PUBLICATIONS IN PROGRESS (for submission in 2009):

Blackburn, J.K., Hugh-Jones, M.E., Curtis, A. Evaluating spatial patterns of hematophagous fly densities and white-tailed deer movements in relation to anthrax outbreaks. Professional Geographer

Blackburn, J.K., Hugh-Jones, M.E., Hadfield, T., Mitchell, M.A., Curtis, A. The “case-multiplier hypothesis” for anthrax transmission in wildlife: field confirmation of *Bacillus anthracis* in flies. Journal of Wildlife Diseases.

McNyset, K.M. and J.K. Blackburn. Interpreting GARP rule sets: a novel data mining tool for evaluating biological information within rules. Ecological Modelling.

PUBLICATIONS:

Hugh-Jones, M.E. and **J.K. Blackburn.** In Press. Ecology of *Bacillus anthracis*. In Molecular aspects of Medicine.

Blackburn, J.K. In Press. Integrating geographic information systems and ecological niche modeling into disease ecology: a case study of *Bacillus anthracis* in the United States and Mexico. In Skowronski, E. Emerging and Endemic Pathogens: Advances in Surveillance, Detection, and Identification. Science for Peace and Security Series, NATO.

Blackburn, J.K., A. Curtis, F.C. Mujia, F. Jones, P. Dorn, R. Coates. 2008. The development of the Chagas' Online Data Entry System (CODES-GIS). *Transactions in GIS*. 12(2): 249 - 265.

Blackburn, J.K., McNyset, K.M., Hugh-Jones, M.E., Curtis, A. 2007. Predicting the geographic distribution of anthrax, *Bacillus anthracis*, for the contiguous United States using a machine-learning algorithm. *American Journal of Tropical Medicine and Hygiene* 77(6): 1103-1110.

Curtis, A.C., **J.K. Blackburn**, Y. Sansyzybayev. 2007. Chapter 23: Using a Geographic Information System to Spatially Investigate Infectious Disease. IN: M. Tibayrenc (Ed) *Encyclopedia of infectious diseases: Modern Methodologies*. Wiley and Sons Publishing.

Blackburn, J.K., J.A. Neer, B.A. Thompson. 2007. Delineation of bull shark, *Carcharhinus leucas*, nursery areas in the inland and coastal waters of Louisiana. In: McCandless, C.T. and N. Kohler (eds). *Shark nursery grounds of the Gulf of Mexico and the East Coast waters of the United States*. American Fisheries Society Press.

Neer, J.A., **J.K. Blackburn**, B.A. Thompson. 2007. Shark nursery areas of Louisiana's Nearshore Coastal Waters. In: McCandless, C.T. and N. Kohler (eds). *Shark nursery grounds of the Gulf of Mexico and the East Coast waters of the United States*. American Fisheries Society Press.

Curtis, A., **J.K. Blackburn**, J.W. Mills. 2007. Calculating a Spatial Variant of the Basic Reproduction Number (R_0) for the New Orleans Yellow Fever Epidemic of 1878. *Professional Geographer*.

McNyset, K.M. and **Blackburn, J.K.** 2006. Does GARP really fail miserably? A response to Stockman et al. (2006). *Diversity and Distributions*.

Keenan, S.F., M.C. Benfield, **J.K. Blackburn**. 2006. Potential importance of the artificial light field around offshore petroleum platforms for the associated fish community. *Marine Ecology Progress Series*.

Hinman, S.E., **J.K. Blackburn**, A.C. Curtis. 2006. Spatial and temporal structure of typhoid outbreaks in Washington, D.C., 1906-1909: evaluating local clustering with the G_i^* statistic. *International Journal of Health Geographics*.

Curtis, A.C., Mills, J.W., **Blackburn, J.K.**, Pine, J.C. 2006. Hurricane Katrina: GIS Response for a Major Metropolitan Area. Quick Response Report No 180, Natural Hazards Center, University of Colorado.

Curtis, A., Mills, J.W., **Blackburn, J.K.**, Pine, J.C., Kennedy, B. 2006. Louisiana State University Geographic Information System Support of Hurricane Katrina Recovery Operations. *International Journal of Mass Emergencies and Disasters* 24(2): 203 – 221.

Suttkus, R.D., B.A. Thompson, **J.K. Blackburn**. 2005. An analysis of the Menidia complex in the Mississippi River Valley and in two nearby minor drainages. *Southeastern Fishes Council Proceedings* 48: 1—9.

TECHNICAL REPORTS:

Blackburn, J.K. and Hugh-Jones, M.E. 2007. Implementing GIS and Field Support for IDHS Environmental Bioterrorism Detection Protection. Submitted to: Science Applications International Corporation. 11 December 2007. 17 pps.

Blackburn, J.K. 2007. White paper on Integrating GIS, GISc, and ecological modeling into CBR disease studies (Draft 1). Submitted to: Defense Threat Reduction Agency Cooperative Biological Research Program. 10 May 2007. 30 pps.

Blackburn, J.K. and A. Curtis. 2004. Integrating GIS and GPS using PDA technology: A color field guide to Windows CE and ArcPad 6.0. LSU WHOCC GUIDE SERIES VOLUME 2. Available in Spanish and English

Blackburn, J.K. and B.A. Thompson. 2004. Annual Report 2004: Shark nursery grounds in Central Louisiana's coastal environment – Timbalier Bay. Final Report for 2004 to COASTSPAN coordinator, NMFS SEFSC Shark Population Assessment Group, Panama City, Florida.

Neer, J.A., B.A. Thompson, R.E. Condrey, J.A. de Silva, G.W. Peterson, K.P. Barry, **J.K. Blackburn**, and D.C. Parnell. 2002. Louisiana's nearshore coastal waters as shark nursery habitat: a preliminary review. IN: Gulf of Mexico and Atlantic States Shark Nursery Overview. Pratt, H.W., ed. Report to NOAA's Highly Migratory Species Management Division F/SF1, NMFS Office of Sustainable Fisheries, Silver Spring, MD.

INVITED PRESENTATIONS:

Field validation of fundamental niche predictions of *Bacillus anthracis* for the U.S. and potential changes in the geographic distribution of *B. anthracis* in the U.S. in 2050. Emerging Pathogens Institute Seminar Series, University of Florida, 18 March 2009, Gainesville, Florida.

Role of Geographic Information Systems (GIS) in Surveillance and Outbreak Investigations. NATO Science for Peace and Security Programme Advanced Research Workshop Conference “Rapid Detection of Chemical, Biological, Radiological and Nuclear (CBRN) Agents or Weapons, and Rapid Diagnosis of the Effects on People” under the Workshop Title “Emerging

and Endemic Pathogens: Advances in Surveillance, Detection, and Identification”. Tbilisi, Georgia, June 24 – 27, 2008.

GIS and Public Health: Mapping disease and response, improving decision making. MPH class, Department of Health Sciences, California State University, Fullerton, 7 May 2008.

CBR-GIS II: Forward progress towards spatial decision support, hypothesis-based analysis, and predictive modeling. 10th Anniversary Meeting, Biological Threat Reduction Program, Annual Meeting, Garmisch, Germany, 14 – 18 April 2008.

Integrating GIS and predictive ecological niche modeling to understand disease distributions with examples from anthrax and plague. Seminar, Department of Biological Sciences, California State University, Fullerton, 9 April 2008.

Reflections of Hurricane Katrina: Emergency operations and real-life disasters. Geography 450, California State University, Fullerton, 5 March 2008.

Utilizing predictive modeling and spatial hotspot analyses to evaluate the distribution, ecology, and outbreak persistence of *Bacillus anthracis* in North America and Central Asia. **Blackburn, J.K.** and Hugh-Jones M.E. Project Kr-1101 – Italy, USA, Kyrgyz Republic: International meeting on Anthrax Instituto Zooprofilattico Sperimentale della Puglia e della Basilicata September 10 – 15, 2007 AND “Assessment of Spatial Techniques of Pollution of the Territory of Kyrgyzstan by Anthrax Agents (First Stage), September 19 – 25, 2007, Bishkek, Kyrgyzstan.

Using ecological modeling, field methods, and statistics to evaluate anthrax ecology. Seminar in Environmental Studies Class, California State University, Fullerton, 19 September 2007.

Integrating spatial analysis and ecological modeling into disease surveillance and research across CBR: moving towards a hypothesis-testing paradigm with GIS and GISc. CBR Program Review, April 2 -6, 2007, Garmisch, Germany.

Utilizing predictive models to evaluate the distribution and ecology of *Bacillus anthracis* in North America and Central Asia. **Blackburn** et al. Agents of Bioterrorism Symposium. International Meeting on Emerging Diseases and Surveillance, Vienna, Austria, February 23 – 25, 2007.

Modeling the geographic distribution of *Bacillus anthracis* and examining ecological components of potential transmission pathways. 7 November 2006. National Center for Foreign Animal and Zoonotic Disease Defense, and the Department of Rangeland Ecology and Management, Texas A&M University.

Evaluating disease distributions and transmission cycles at multiple geographic scales: a case study of anthrax in the United States. 22 September 2006, GeoForum Seminar Series, University of Southern Mississippi.

Geographic Information System Technologies: Integrating spatial data into disease surveillance, reporting, and analyses. 25 January 2006, DTRA/CBR Annual Collaborators Review Meeting, Smiley, Virginia.

GIS projects of the LSU World Health Organization Collaborating Center. Louisiana GIS Council. October Meeting, Baton Rouge, LA 2004.

Geospatial techniques for analyzing pelagic fish distributions in the Gulf of Mexico. Invited seminar for the National Shark Consortium-Florida Program for Shark Research, Florida Museum of Natural History, University of Florida, Gainesville. September 2004

An introduction and an overview of Geographic Information Systems, spatial modeling, and spatial analysis: Applications and case studies in marine fisheries. Annual meeting of the American Elasmobranch Society, Graduate Student Workshop, July 2002, Kansas City, MO.

WORKSHOPS AND CONFERENCES:

URISA 2nd Annual GIS in Public Health Conference Steering Committee member and session organizer, 2009 meeting.

Sessions organized and chaired:

- Mapping Anthrax: Modeling Landscape Ecology & Space-time Epidemiology
- Mapping Zoonoses in Central Asia

Blackburn, J.K. and T.A. Joyner. Ecological Niche Modeling for Predicting Disease Distributions: Designing Experiments and Interpreting Results. URISA GIS and Public Health Conference, Friday 9 June 2009.

Blackburn, J.K. and K.M. McNyset. Ecological Niche Modeling for disease research with the GARP system, Louisiana State University, Baton Rouge, LA. May 24 – 26 2007

Blackburn and deWalder. Kyrgystani Consortium for GIS Excellence: Introductory workshop on GIS in Kyrgyzstan. (JKB – Lead scientific PI / consortium author with C. deWalder and M. Pruett)

Blackburn, J.K. 2005 ORGANIZER. The Role of Shark Biologists Across Academia, State and Federal Agencies. A graduate workshop of the American Elasmobranch Association. Saturday, July 9, 2005, 12 to 130 pm.

ABSTRACTS AND PRESENTATIONS:

Blackburn et al. Modeling the potential geographic distribution of *Bacillus anthracis* in the United States in 2055. f URISA GIS and Health Conference, Providence Rhode Island, June 2009.

Blackburn et al. Mapping Sero-prevalence of Brucellosis in Southern Kazakhstan. URISA GIS and Health Conference, Providence Rhode Island, June 2009.

Truong, A., Blackburn, J. and Hugh-Jones, M.E. Mapping Anthrax Cases from Promed - What Can We Learn about Epidemiology from Open Source Archival Sources? A Focus on Central Asia. URISA GIS and Health Conference, Providence Rhode Island, June 2009.

Espejo et al. Estimating the Potential Geographic Overlap Between *Bacillus anthracis* and Saiga Antelope - Might Saiga Contract Anthrax? URISA GIS and Health Conference, Providence Rhode Island, June 2009.

Ospanov et al. Modeling Vector Distributions for CCHF in Kazakhstan with Ecological Niche Modeling and GIS URISA GIS and Health Conference, Providence Rhode Island, June 2009.

Abdullayev et al. Space-time clusters of human anthrax cases in Azerbaijan from 1962 – 1998. URISA GIS and Health Conference, Providence Rhode Island, June 2009.

Christopher Shane Foster¹, Shahlo Rakhimova², Jason K. Blackburn¹, Amijan Nematov². **Combining GIS and ecological niche modeling approaches to improve distribution estimates for plague reservoirs in Uzbekistan.** URISA GIS and Health Conference, Providence Rhode Island, June 2009.

Ian T. Kracalik¹, Larissa Lukhnova², Alim Aikimbayev², Yerlan Pazilov², Gulnara Temiralyeva², **Jason K. Blackburn¹. Retrospective and prospective spatio-temporal analyses of anthrax in Kazakhstan from 1950 – 2006.** URISA GIS and Health Conference, Providence Rhode Island, June 2009.

Timothy Andrew Joyner¹, Larissa Lukhnova², Yerlan Pazilov², Gulnara Temiralyeva², Alim Aikimbayev², Martin E. Hugh-Jones³, **Jason K. Blackburn¹. Modeling *Bacillus anthracis* under multiple climate change scenarios for Kazakhstan** URISA GIS and Health Conference, Providence Rhode Island, June 2009.

Blackburn, J.K. Modeling species' distributions: Tools for predicting potential geographic distributions of species using examples from wildlife and disease agents. 50th Anniversary Celebration of Research, California State University, Fullerton, 14 March 2008.

Aikimbayev, A. Luhknova, L., Pazilov, Y., Van Ert, M.N., Hadfield, T., **Blackburn, J.**, Temiraliyeva, G., Karpova, O., Hugh-Jones, M.E., Francesconi, S.C., Zakarayan, S., Meka-Mechenko, T. 2008. Molecular Diversity of *Bacillus anthracis* in Kazakhstan. ASM Biodefense Conference 24- 27 February 2008, Baltimore, MD. Poster Presentations

Blackburn, J.K., K.M. McNyset, M.E. Hugh-Jones, M.A. Mitchell, A. Curtis. 2007. Predicting the geographic distribution of *Bacillus anthracis*, the causative agent of anthrax, in Mexico using ecological niche modeling and outbreak data from the United States of America. Paper. V Congreso Internacional de Epidemiologia in Villahermosa, Tabasco October 2007.

Blackburn, J.K., Rakhimova, S., Ten, R., Nematov, A. 2007. Predicting the potential distribution of plague, *Yersinia pestis*, in the Republic of Uzbekistan using field sampling, GIS, biodiversity clearinghouses, and predictive ecological niche modeling. Oral presentation. Association of Pacific Coast Geographers 70th annual meeting. 17-20 October 2007, Long Beach, California.

McNyset, K.M. and **Blackburn, J.K.** 2007. Opening the black box: A tool for evaluating the biological information of a GARP rule-set using examples from the natural ecology of Anthrax. Oral presentation. ESA/SER Joint Meeting. August 5 – 10, 2007. San Jose, California.

Blackburn, J.K., S. Rakhimova, A. Nematov, Z. Sagiyev, Y. Pazilov, L. Lukhnova, A. Aikimbayev, T. Hadfield, M. Van Ert, S. Francesconi, K. McNyset, A. Joyner, M.E. Hugh-Jones. 2007. Integrating spatial clustering statistics and ecological niche modeling to examine the distribution and ecology of anthrax in North America. Poster presentation. *Bacillus* – ACT 2007 International Conference on *Bacillus anthracis*, *B. cereus*, and *B. thuringiensis*. 17 – 21 June 2007, Oslo, Norway.

McNyset, K. and **J.K. Blackburn** 2007. A tool for evaluating the biological information content of a GARP rule-set for a disease system. Oral Presentation. URISA's GIS in Public Health Conference, May 20 – 23, 2007, New Orleans, Louisiana.

Blackburn, J.K. et al. 2007. Using ecological modeling with GIS to improve international anthrax surveillance. Oral Presentation. URISA's GIS in Public Health Conference, May 20 – 23, 2007, New Orleans, Louisiana.

Pazilov, Y., L. Lukhnova, Z. Sagiyev, G. Temiraliyeva, T. Meka-Menchenko, Y. Sansyzbayev, M. Van Ert, T. Hadfield, T.A. Joyner, A. Curtis, M.E. Hugh-Jones, **J.K. Blackburn**. 2007. Decadal spatio-temporal analyses of anthrax outbreaks in Kazakhstan from 1937 to the present. Oral Presentation. URISA's GIS in Public Health Conference, May 20 – 23, 2007, New Orleans, Louisiana.

Z. Sagiyev, Y. Pazilov, L. Lukhnova, G. Temiraliyeva, T. Meka-Menchenko, Y. Sansyzbayev, T.A. Joyner, A. Curtis, M.E. Hugh-Jones, **J.K. Blackburn**. 2007. Spatial hotspots of anthrax cases in Kazakh livestock: identifying control strategy needs. Oral Presentation. URISA's GIS in Public Health Conference, May 20 – 23, 2007, New Orleans, Louisiana.

Rakhimova, S., R. Ten, A. Nematov, K.M. McNyset, **J.K. Blackburn**. 2007. Distribution, ecology, and spatial analysis of plague, *Yersinia pestis*, in Central Uzbekistan. Oral Presentation. URISA's GIS in Public Health Conference, May 20 – 23, 2007, New Orleans, Louisiana.

Rakhimova, S., Nematov, A., **Blackburn, J.K.** 2007. Distribution, ecology, and spatial analysis of plague, *Yersinia pestis*, in Central Uzbekistan. Illustrated paper. Annual Meeting of the Association of American Geographers, 17- 21 April 2007, San Francisco, CA.

Pazilov, Y., Lukhnova, L., Sagiyev, Z., Aikimbayev, A., Sansyzbayev, Y., Hugh-Jones, M.E., **Blackburn, J.K.** 2007. Decadal spatio-temporal and hotspot analyses of anthrax outbreaks in Kazakhstan from 1937 to present. Illustrated paper. Annual Meeting of the Association of American Geographers, 17- 21 April 2007, San Francisco, CA.

Blackburn, J.K., McNyset, K.M., Hugh-Jones, M.E., Curtis, A. 2007. Ecological modeling and GIS-based approaches to predicting the distribution of Anthrax. Oral Presentation. Annual Meeting of the Association of American Geographers, 17- 21 April 2007, San Francisco, CA.

Aikimbayev, A., Zakaryan, S. Lukhnova, L., Van Ert, M., Easterday, R., Keim, P., Francesconi, S., **Blackburn, J.**, Hadfield, T., Hugh-Jones, M. 2007. Historical Incidence and Molecular Diversity of *Bacillus anthracis* in Kazakhstan. Poster presentation. 17th European Congress of Clinical Microbiology and Infectious Diseases. March 31 – April 3, 2007 Munich, Germany.

Hugh-Jones, M.E. and **Blackburn, J.K.** 2006. New perspectives on anthrax control in wildlife and at the wildlife/livestock interface. The Annual Conference on Diseases in Nature Transmissible to Man, College Station, Texas, August 1 -3, 2006.

Blackburn, J.K.; Hugh-Jones, ME; Dorrell, D; Parkinson, R; Sansyzbayev, Y; Aikimbayev, AM; Curtis, A. Preliminary analysis of the spatial ecology of anthrax in North America and Kazakhstan. Poster/Abstract. Bacillus ACT Conference 2005. 25-29 September 2005. Santa Fe, New Mexico, United States

Hugh-Jones, M.E. and **J.K. Blackburn**. 2005. Epidemiology of anthrax in Texas. Poster. Bacillus ACT Conference 2005. 25-29 September 2005. Santa Fe, New Mexico, United States.

Hugh-Jones, M.E. and **J.K. Blackburn**. 2005. Epidemiology of anthrax in Texas. Oral Presentation, The Annual Conference on Diseases in Nature Transmissible to Man, College Station, Texas, June 1 – 3, 2005.

Blackburn, J.K., M.E. Hugh-Jones, D. Dorrell, R. Parkinson. 2005. Oral Presentation, Preliminary discussion on the ecology of anthrax in North America. The Annual Conference on Diseases in Nature Transmissible to Man, College Station, Texas, June 1 – 3, 2005.

Thompson, B.A., G.W. Peterson, **J.K. Blackburn**. 2005. The importance of freshwater riverine habitat, particularly as a nursery for *Paralichthys lethostigma* in the Atchafalaya River Delta, Louisiana, with comments on potential impacts of riverine diversions. Oral Presentation, 26th Annual Meeting of the Louisiana Chapter of the American Fisheries Society, Baton Rouge, Louisiana, February 3rd and 4th, 2005.

Blackburn, J.K., and B.A. Thompson. 2005. Delineation of bull shark, *Carcharhinus leucas*, nursery areas in the inland and coastal waters of Louisiana, with preliminary results from a habitat suitability analysis. Extended abstract, 26th Annual Meeting of the Louisiana Chapter of the American Fisheries Society, Baton Rouge, Louisiana, February 3rd and 4th, 2005.

Hinman, S.E., **Blackburn, J.K.**, A.Curtis. 2005. Detecting Hotspots in a Historical Dataset: A Case Study of Typhoid Reports from Washington, DC, 1906 – 1909. Poster Presentation, Annual Meeting of the Association of American Geographers, 5 – 9 April 2005, Denver, Colorado.

Keenan, S.F., M.C. Benfield, **J.K. Blackburn**. 2005. Artificial lights on offshore platforms: a factor explaining enhanced fisheries production? Oral Presentation, 8th International Conference of Artificial Reefs (and Related) Artificial Habitats, April 10 – 14, 2005, Biloxi, Mississippi

Thompson, B.A., Peterson, G.W., **Blackburn, J.K.**, 2005. Coastal restoration and habitat construction: Evaluating Fish Assemblages using Man-made Habitats in the Atchafalaya River Delta, Louisiana, USA. Oral Presentation, 8th International Conference of Artificial Reefs (and Related) Artificial Habitats, April 10 – 14, 2005, Biloxi, Mississippi

Thompson, B.A., Peterson, G.W., **Blackburn, J.K.** 2005. Fishes of the Atchafalaya River Delta (Louisiana, USA) with Comments on the Influence of Geomorphological and Anthropogenic Changes. Oral Presentation. 85th Annual Meeting of the American Society of Ichthyologists and Herpetologists, 7 – 11 July 2005, Tampa, Florida.

Blackburn, J.K. 2005. The use of PDA's to support WHOCC projects. Oral Presentation, 21st Annual Louisiana Remote Sensing & GIS Workshop, 19 – 22 April, 2005, New Orleans, Louisiana.

Blackburn, J.K., A.C. Curtis, A. Cruz-Reyes. 2005. (Near) Real-Time Analysis as a Tool in Field Epidemiology. Oral Presentation, Annual Meeting of the Association of American Geographers, 5 – 9 April 2005, Denver, Colorado.

Thompson, B.A., G.W. Peterson, **J.K. Blackburn**. 2005. Fishes of the Atchafalaya River Delta (Louisiana, USA) with comments on the influence of geomorphological and anthropological changes. Oral presentation Joint Meeting of Ichthyologists and Herpetologists, 6-11 July 2005, Tampa Florida.

Thompson, B.A., G.W. Peterson, **J.K. Blackburn**. 2004. The importance of freshwater riverine habitat, particularly as a nursery for *Paralichthys lethostigma*, in the Atchafalaya River delta, Louisiana. Oral Presentation, Ninth Flatfish Biology Conference [sponsored by National Marine Fisheries Service, Northeast Fisheries Science Center and New England Chapter American Fisheries Society], December 1st and 2nd Westbrook ,CT

Blackburn, J.K., J.A. Neer, B.A. Thompson. 2004. Delineation of Bull Shark, *Carcharhinus leucas*, nursery habitat in Louisiana waters. Poster Presentation American Elasmobranch Society Annual Meeting, Norman, Oklahoma, July 2004.

Blackburn, J.K., M.A. Mitchell, G.B. Skomal, R. Fuller. 2004. The physiological effects of propofol on wild caught sharks. Oral Presentation American Elasmobranch Society Annual Meeting, Norman, Oklahoma, July 2004.

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