

Curriculum Vita: Thomas Kerlin Park

Chronology of Education

University of Wisconsin - Madison	
Ph.D. Anthropology and History	1983
M.A. Agricultural Economics	1982
M.A. Anthropology	1977
McGill University, Montreal, Canada	
B.A. 1st Class Honors in Anthropology and Philosophy	1974
University of Bergen, Norway	
Studied Anthropology	1971-2
Thesis: Administration and the Economy: Morocco 1880 to 1980. The case of Essaouira. 592 pp. Ph.D. thesis in Anthropology and History, (Directed by Aidan W. Southall and Jan Vansina) University of Wisconsin-Madison.	

Employment

1992->	Associate Professor of Anthropology, Department of Anthropology and Associate Research Social Scientist, Bureau of Applied Research in Anthropology; University of Arizona.
1986-1992	Assistant Professor of Anthropology, Department of Anthropology and Assistant Research Social Scientist, Bureau of Applied Research in Anthropology; University of Arizona.
Summer 1990	Faculty Associate, Center for Middle Eastern Studies, Harvard University.
1990->	Member Core Consulting Faculty, Land Tenure Center, University of Wisconsin-Madison
Spring 1986	Visiting Assistant Professor, Land Tenure Center, University of Wisconsin-Madison
1984 - 1985	Project Coordinator for research on land tenure in Mauritania. Land Tenure Center, University of Wisconsin-Madison.

Honors, Awards, Scholarships, and Fellowships

1997 June, Center for the Study of Institutions, Population, and Environmental Change. Bloomington, IN		
1993 Summer, Fulbright Exchange Scholar		Cairo, Egypt.
1981-82 National Resource (HEA)	Arabic	U of W - Madison
1979-80 Fulbright-Hays	Dissertation	Morocco
1979-81 Social Science Research Council	Dissertation	Morocco
1978-79 National Defense Foreign Language	Arabic	U of W - Madison
1977-78 National Defense Foreign Language	Arabic	U of W - Madison
1976-77 National Defense Foreign Language	Arabic	U of W - Madison
1975-76 National Defense Foreign Language	Arabic	U of W - Madison
1974 Graduated First Class Joint Honors	Anthropology & Philosophy	McGill U.
1973-74 James D. McCall Fellowship	Philosophy	McGill U.
1972-73 University Fellowship	Anthropology	McGill U.

Research Interests

Urbanization in Africa and the Middle East, complexity theory, economic theory, mathematical methodologies in anthropology and history, the history of credit, flood recession agriculture, the Sahara, the Sahel, North Africa, development, economic history, North African Arabic archives, bureaucracy in Africa and the Middle East, colonialism & imperialism, anthropology of law, Islam, land tenure, 18th to 21st C European philosophy, foragers in arid lands, pastoralism, Pyrrhonic skepticism, political ecology.

Languages

Arabic, English, French, Norwegian (have also studied Hebrew, Latin, Greek, German, Russian and Tachelhyt)

Publications

Books

- 2017 with James B. Greenberg. *The roots of Western Finance: power, ethics, and social capital in the ancient world*. Lanham, MD, Lexington Books.
- 2017 with James B. Greenberg. *Hidden Interests in credit and finance: power, ethics, and social capital across the last millennium*. Lanham, MD, Lexington Books.
- 2016 with Aomar Boum. *Historical Dictionary of Morocco*. Third Edition. Updated and expansion of Park and Boum. Scarecrow Press / Rowman and Littlefield, Lanham, Md.
- 2006 with Aomar Boum. *Historical Dictionary of Morocco*. Second Edition. Revised and roughly doubled in size expansion of Park 1996. Scarecrow Press, University Presses of America, Lanham, Md.
- 1996 *Historical Dictionary of Morocco*. Scarecrow Press / University Presses of America, Lanham, Md.
- 1993 *Risk and Tenure in Arid Lands: the political ecology of development in the Senegal River Basin*. Edited. University of Arizona Press, Arid Lands Development Series.

Chapters and Encyclopedia Articles

- 2013 with Luis Cisneros, Edward Nell and Mourad Mjahed. Urban Sociology in Poor Cities of Africa and the Middle East : A New Methodology Inspired by Robert E. Park's Urban Ecological Approach. In *The Chicago School Diaspora: Epistemology and Substance*. Jacqueline Low and Gary Bowden (Eds) McGill Queens University Press: pp. 199-209. I wrote 100% of the paper but owe many ideas to the discussion and work of my co-authors - hence their inclusion as co-authors.
- 2009 Entry for "Long Distance Trade" in the *Encyclopedia of Jews in the Islamic World*, (Brill, forthcoming).
- 2009 Entry for "Peddlars" in the *Encyclopedia of Jews in the Islamic World*, (Brill, forthcoming).
- 2009 Entry for "Safi" in the *Encyclopedia of Jews in the Islamic World*, (Brill, forthcoming).
- 2008 Entry for Samir Amin in International Encyclopedia of the Social Sciences, Ed. William A. Darity, Jr. Vol. 1. 2nd ed. Detroit: Macmillan Reference USA, 2008. pp.110-111.
- 2007 Fatima Mernissi. Entry in Biographical Encyclopedia of the Modern Middle East and North Africa. Ed. Michael R. Fischbach. Gale Cengage.
- 2006 Condorcet, Marquis de. In, H. James Birx, Editor. *Encyclopedia of Anthropology*. Thousand Oaks, CA: Sage Publications.
- 2006 Demography. In, H. James Birx, Editor. *Encyclopedia of Anthropology*. Thousand Oaks, CA: Sage Publications.
- 2006 Humboldt, Alexander Von. In, H. James Birx, Editor. *Encyclopedia of Anthropology*. Thousand Oaks, CA: Sage Publications.
- 2006 Irrigation. In, H. James Birx, Editor. *Encyclopedia of Anthropology*. Thousand Oaks, CA: Sage Publications.

- 2006 Herskovits, Melville. In, H. James Birx, Editor. *Encyclopedia of Anthropology*. Thousand Oaks, CA: Sage Publications.
- 2006 Firth, Raymond. In, H. James Birx, Editor. *Encyclopedia of Anthropology*. Thousand Oaks, CA: Sage Publications.
- 1997 Indirass and the Political Ecology of Flood Recession Agriculture. Chapter 3 in *The Ecology of Practice: Studies of Food Crop Production in Sub-Saharan West Africa*. Edited by A. Endre Nyerges. Newark: Gordon And Breach Publishers, Pp.77-96.
- 1993 Arid lands and the political economy of flood recesssion in Fuuta Tooro. Chapter in *Risk and Tenure in Arid Lands*.
- 1993 Privatization and development: the case of the Dirol Plain. Chapter in *Risk and Tenure in Arid Lands*.
- 1993 Crisis of Nationalism in Mauritania. With Mamadou Baro and Tidiane Ngaido. Chapter in *Risk and Tenure in Arid Lands*.
- 1993 Ecology and Risk Management: The case for common property . Chapter in *Risk and Tenure in Arid Lands*.
- 1992 The Sakalava. A Case for Religious Continuity in Madagascar. Chapter in a Festschrift for Aidan Southall titled *Culture and Contradiction: the Dialectics of Wealth, Symbol and Power*, edited by Minka De Sota Mellen Research University Press, San Francisco. Pp. 258-272.
- 1986 Mauritania: Senegal River Valley. Chapter in *Land Tenure Issues in River Basin Development in Sub-Saharan Africa*. pp.52-73. Edited by Peter C. Bloch, Madison: Land Tenure Center, University of Wisconsin-Madison.
- 1986 Mauritania. Chapter in *Country Profiles of Land Tenure: Africa 1985*. pp.120-127. Edited by James C. Riddell, Madison: Land Tenure Center, University of Wisconsin-Madison.
- 1981 Politics of the periodic market in small towns in Africa. Chapter in *Politics of the Small Community*. pp. 343- 358. Edited by Richard W. Crockett, Macomb: Western Illinois University Press.
- 1980 Temporary migration as an index of urban underdevelopment in Northern Morocco. Chapter in *Small Urban Centers in Urban Development in Africa*. Pp.158-74. Edited by Aidan W. Southall, Madison: The University of Wisconsin African Studies Center.
- 1978 The Influence of regional economic networks on the development of small towns in Morocco. Chapter in *The Small City and Regional Community*. Pp.319-326. Edited by R.P. Wolensky and E.J. Miller, Stevens Point: The University of Wisconsin Press.

Journal Articles

- 2010 Review of, *The Cultural and Political Economy of Recovery: Social learning in a post-disaster environment*. By Emily Chamlee-Wright. New York: Routledge Advances in Heterodox Economics, 2010. *Conversations on Philanthropy*. Volume VII, 2010. Reviews, pp. 92-96.

- 2010 Social Transformations and West African Forms of Slavery. Review of *Reconfiguring Slavery: West African Trajectories*. edited by Benedetta Rossi. Liverpool University Press 2009. *Current Anthropology* Volume 51, Number 5, 2010 pp. 715-716.
- 2003 [80%] with Mamadou Baro, The Six Cities Project: developing a methodology of surveying densely populated areas using social science assisted and diachronic remote sensing based classification of habitation. *Journal of Political Ecology* Vol. 10: 1-23.
- 2003 with Stuart E. Marsh, Barbara A. Esworth, Mohammad H. Farah, Douglas S. Rautenkranz and Barron J. Orr Development of Sampling Procedures Based Upon Satellite Derived Land Cover History for the NSF Digital African Cities Project. *Journal of Political Ecology* Vol. 10: 63-8.
- 2003 with James B. Greenberg, Edward J. Nell, Stuart E. Marsh and Mourad Mjehed. Research on Urbanization in the Developing World: New Directions. *Journal of Political Ecology* Vol. 10: 69-94.
- 2003 Reflections on criminality and demographic structure: a multi-national examination of the links between youth and national crime statistics. *Arizona Law Review*: vol. 45 Number 3: 595-619.
- 2001 [70%] with Hsaïn Ilahiane. Sources for the socio-economic study of rural Morocco. *International Journal of Middle East Studies* 33 2001), 271-290..
- 2001 [50%] With Aomar Boum. Review of Remco Ensel. Saints and Servants in Southern Morocco. Leiden, Boston, Koln: Brill, 1999 in the *Journal of North African History*.
- 1994 [50%] Political Ecology. *Journal of Political Ecology* 1:1-8. Inaugural article for the journal, co-authored with James B. Greenberg, the other co-editor.
- 1992 Moroccan Migration and Mercantile Money. *Human Organization*. Vol.51, No.3 1992:205-213.
- 1992 Early trends toward class stratification. Chaos, Common Property and Flood Recession Agriculture. *American Anthropologist*, March, Pp.90-117.
- 1989 Essaouira: The formation of a New Elite 1940-1980. *African Studies Review*. Vol.31 No.2. Pp.111-132.
- 1988 Rural North East Algeria 1919-1938. *Peasant Studies* vol 15 (2):117-128.
- 1988 Indigenous Responses to Economic Development in Mauritania. *Urban Anthropology and Studies of Cultural Systems and World Economic Development* Vol.17(1):53-74. Special Issue with an Afterword by Eric Wolf.
- 1985 Pyrrhonism in anthropological and historical research. *History in Africa*, 12 pp.225-252.
- 1985 Inflation and Economic Policy in 19th Century Morocco: the compromise solution. *The Maghreb Review* March-June vol.10, No.2 pp.51-56
- 1983 A report on the state of Moroccan archives. *History in Africa*, 10(1983), 395-409.

Works in Progress

Books

With Aomar Boom. *Judaeo-Arabic merchants of Safi and Marrakech on the eve of the protectorate*. This book is a translation and introduction to a set of judaéo-arabic letters between Jewish merchants in Safi and Marrakech in the first decade of the 20th century. We hope to finish it by summer 2014.

With Mourad Mjahed. *The Frej Papers: transitions to Protectorate*. This book is an analysis of some 30 personal financial ledgers kept by the head of customs in Casablanca from late in the 19th century through the first three decades of the 20th century. This book is in a holding pattern until Dr. Mjahed has more time.

Scholarly Presentations

- 2016** **Bridging the chasm between Big Urban Data and contextual variables: using transformational Growth Matrices in an ABM. Presented at Argonne National Laboratory, 2 May 2016.**
- 2015** *Technologies of Power and the Metrology of grain storage in the ancient Near East*. Society for Economic Anthropology annual meeting, Lexington, KY.
- 2015** *Poster. Modeling Transformational Growth in Large African Cities. co-authored with John Murphy, Mark Altaweel, Luis Cisneros. Computational Social Science society - ASU.*
- 2014** *Capability Theory and Refugees in the Sahel and North Africa*. SfAA Albuquerque.
- 2013 *Aristotle's critique of the Sumerian financial paradigm*. Paper presented at the annual meeting of the SfAA in Denver, CO.
- 2012 *Trust, power, and evasion in systems of credit*. Paper presented at the annual meeting of the SfAA in Baltimore, MD.
- 2011** *Resilient Social Ecological Systems: bridging the rural urban dichotomy*. CSSSA (Computational Social Science Society) Conference. Santa Fe, NM Oct 9-12, 2011. Peer reviewed paper.
- 2011** *Urban Sociology in Poor Cities of Africa and the Middle East: A new methodology inspired by Robert E Park's Urban ecological approach suggesting insights into resilience within urban and rural contexts*. Paper presented as part of Panel 1: Types of Social Ecological Systems and the Tole of Place Based Resilience. 14 March 2011. Resilience 2011 conference ASU.
- 2009 *Credit and Hidden Interest in the Ancient Near East and Classic Mediterranean*. Invited Talk, Department of Near Eastern Studies and Center for Middle Eastern Studies. University of Arizona. Colloquium Series. October 9, 2009.
- 2009 *Panning Panarchy: an urban political ecology take on panarchy's Ptolemaic planet*. Keynote address. NSF's EPSCoR All-Hands Meeting, Anchorage Alaska, 14 May.
- 2008 with intellectual inputs from Luis Cisneros Edward Nell and Mourad Mjahed. *Urban Sociology in Poor Cities of Africa and the Middle East : a New Methodology Inspired by Robert E. Park's Urban Ecological Approach*. Presented at the *Qualitatives 2008* conference (May 21-24) University of New Brunswick in Fredericton, New Brunswick Canada.
- 2007 29 January. Talk at Intel, Hillsboro, Oregon: *Modeling the urban household: perspectives on development in Islamic Cities*. (with some inputs from Mourad Mjahed and Luis Cisneros).
- 2005 with Mourad Mjahed and Luis Cisneros. *Modeling complexity in urban spaces of the developing world: an*

- ecological approach to socio-economic strategies*. Presented at the conference, Next Generation Simulations of Human-Environmental Interactions Working Group. Santa Fe Institute, University of Arizona & Arizona State University, December 12-14, 2005, Tucson, AZ.
- 2005 *Reflections on the threats and benefits of remote sensing of urban landscapes*. SfAA annual meetings in Santa Fe, New Mexico. in Panel, Landscapes of Modern Technology, Moderated by Thomas K. Park.
- 2003 [40%] with Mourad Mjahed and Luis Cisneros. *Modeling household dynamics in Marrakech, Bamako and Niamey: perspectives on robustness in urban environments*. Presented at the conference on Robustness of Coupled Natural and Human Systems at the Santa Fe Institute April.
- 2003 [70%] with Mourad Mjahed. *Mapping household demographics in Marrakech, Bamako, and Niamey*. SfAA annual meetings in Portland, Oregon.
- 2003 *Reflections on Resilience, Risk Management, and Flood Recession Agriculture. Social Dimensions of Hohokam Irrigation: Perspectives Across Cultures and Time*. Workshop. Feb. 27-Mar.1, Tempe.
- 2003 [80%] with Mamadou Baro, *The Six Cities Project: developing a methodology of surveying densely populated areas using social science assisted and diachronic remote sensing based classification of habitation*. NSF funded conference on the Six Cities Project held in Dakar, Senegal, January 6-10.
- 2002 *Mapping Urban Space and Place: The Six Cities Project*. AAA annual meeting. New Orleans.
- 2002 *Reflections on criminality and demographic structure: a multi-national examination of the links between youth and national crime statistics*. Rogers College of Law, Conference on Youth, Doubletree Inn, Tucson.

Professional Association Memberships

African Studies Association
 American Anthropological Association
 American Ethnological Society
 Middle Eastern Studies Association
 National Association for the Practice of Anthropology
 Political Ecology Society
 Society for Applied Anthropology

Grants

Submitted 28 January 2015 to the Economics Program at NSF and the Research Council in the UK a grant to model the economy of the city of Dakar. Title: *SBE-RCUK Developing a Methodology to Estimate the 5-10 year Impacts of International Trade Policies, Using Empirical Data and ABM for Senegal and Tanzania* Budget approximately \$2.1 million. I, Two modelers, John Murphy of Argonne National Laboratory and Mark Altaweel of University College London, an economist, Edward Nell of The New School, two physicists, Luis Cisneros and Elsa ArcauteI and some local colleagues, James Greenberg, Mamadou Baro and Brackette Williams are collaborating on this. We have also arranged to talk with the Singapore Center for Complexity Studies after we have a more developed working

model to see if we can enlist them to join in the project (studying Singapore of course).. The primary goal is to use an economic model to be able to critique policy including the IMF's SAPs. This will involve extensive ethnographic data collection as well as the use of available economic data and some sophisticated recent economic concepts, e.g. transformational growth matrices, developed by Nell.

2007-2014 co-PI with Stefanie Herrmann, Mamadou Baro and Randy Gimblett. *"Desertification" or "Greening"? Human-Environment Relationships in the Face of Climate Variability: Case Studies in Mauritania and Senegal*. Submitted to NSF: Geography in July, 2007. Awarded \$400,000 in December 2007, starting date April 2008 (NSF grant no. EAR9817743). No cost extensions 2012-2014 final report now filed, publications in process.
PROJECT SUMMARY: Desertification' or 'Greening'? Human-Environment Relationships in the Face of Climate Variability: Case Studies in Mauritania and Senegal (Stefanie Herrmann, Thomas Park, Mamadou Baro, Randy Gimblett)

Beginning in the late 1960s, the West African Sahel zone has repeatedly made headlines for a number of – potentially related – environmental and economic problems, which manifest themselves in changes in land cover. While these changes are often referred to as 'desertification', there has been a lack of consensus among scientists over the exact meaning of this notion, the mechanisms governing it, and the extent of the problem in the Sahel. Recent remote sensing-based studies have shown an overall greening trend in the Sahel, which might indicate that positive developments have been going on. However, the meaning of 'greening' is equally vague as that of 'desertification', and its implications on the ground are far from clear and unambiguous.

The overall goal of the proposed project is to develop empirical evidence that can inform our understanding of the interactions among land use, land cover, and people's livelihoods in the face of rainfall variability and unpredictability in two Sahelian countries, Mauritania and Senegal. We will (1) use remote sensing techniques to measure land cover dynamics and map current and past land use, (2) conduct field surveys to reconstruct land use and management practices employed by natural resource user groups, and (3) use information on land use decision-making by different resource user groups and observed changes in land cover to develop a spatially explicit agent-based model that can be used to simulate land cover change under different climatic and management scenarios.

Intellectual merit: The proposed project will contribute to the understanding of the relative contribution to land use/land cover change of (1) human behavior and (2) climate variability in marginal climatic environments. While the issue of desertification has so far been mostly approached from either the natural or the social science perspective, this project's integrated approach will help advance the frontiers of understanding across disciplines and generate new thought and discussion. The study results may also help break the gridlock in the desertification debate. Furthermore, the synergistic effects produced from combining local wisdom and experience in dealing with climatic uncertainty with scientific expertise in remote sensing and spatial modeling will contribute to a deepened understanding of the driving forces influencing desertification and greening. Ideally, with the help of sampling, analysis and modeling protocols developed and validated in the proposed project, future research could be expanded to several more sites to embrace the large diversity of relations between environment and livelihood systems found across the Sahel – a precondition for refining hypotheses and building theories.

Broader societal impact: The broader impacts of the project involve K-12 education as well as strengthening international institutional ties. Starting in year one, we will construct a poster board exhibit on desertification and build it up in the following years based on our findings from the Sahel. It will be housed in the Anthropology Building at U of A, which contains the Arizona State Museum exhibit space. This museum receives busloads of K-12 students each semester as well as numerous adults. By this exhibit, we will contribute to education on global change issues in the context of world deserts. The general topic has become increasingly important in school curricula in the last few years but students in Arizona will be particularly interested in the impacts in arid regions. In communicating our research results to the public, we will also make use of the outreach network developed at the Center for Capacity Building at NCAR.

The project will further develop the cooperative linkages between the University of Arizona, the University of Nouakchott and the Centre de Suivi Ecologique in Dakar, Senegal and increase cooperation between the University of Arizona, NCAR and the USGS. The project will result in a database and scientific infrastructure that can be used in a decision-support system across the Sahel and will thereby contribute to bridging the gap between methodological research and operational implementation.

2006-submitted with Mamadou Baro and Stuart Marsh (\$750,000) submitted to NSF's Human and Social Dynamics Program:

Title: AOC Consequences and Causes of Urban Vulnerability in Dakar, Senegal: Using Remote Sensing and Agent Based Modelling (ABM) to Understand Development Traps in LDC Cities.

PI: Thomas K. Park, Lead Institution: University of Arizona, also Argonne National Laboratory and Centre de Suivi Ecologique, Dakar, Senegal.

Project Summary

Intellectual Merit

This project builds on a successful methodology developed with NSF funding between 1998 and 2002 to test the possibility of using 20 years of diachronic remote sensing imagery of urban areas in Africa to create a classification of urban habitation that could serve as a sampling frame for urban studies of socio-economic and environmental issues. The current project, a collaboration between U of A, CSE (Centre de Suivi Ecologique in Dakar) and the Argonne National Laboratory, will use sub-1 meter Quickbird imagery and a multitude of other imagery and data to study urban vulnerability in Dakar, Senegal. Its focus will no longer be methodological but scientific: we hope to use the sampling methodology at an enhanced level to study the complex dynamics of changes in urban vulnerability for a gradient of urban inhabitants ranging from new immigrants in very precarious situations all the way to neighborhoods with better urban tenure, urban services and health outcomes. We will develop an economic model using a transformational growth matrix and an agent based model to study urban vulnerability and the potential impacts of policy change. The new and already acquired remote sensing imagery and other urban data will be used to select 100 survey points in each city. At each point, we will study urban vulnerability issues, broadly conceived, through four focus groups (young / old by male / female). The full set of data from the focus groups will be used to create a household interview instrument and a random selection of six households at each point will then be interviewed. Through the development of a transformational growth matrix, designed to study the interactions between a set of indices synthesizing a multitude of key socio-economic variables, and agent based modelling we hope to make significant progress toward developing a cost effective way of understanding natural, socio-economic and policy derived environments in complex urban areas in developing countries.

Broader Impacts

The project is conceived as a collaboration between three institutions (the University of Arizona, CSE / Centre de Suivi Ecologique in Dakar and the Argonne National Laboratory). The project will draw public (especially K-12) attention to the problems of vulnerability in the major cities of developing countries. It will also develop capacity in the U.S. and Africa for long term research on urban environments in Africa. In the medium term we hope the project will become a stepping stone that will help the city of Dakar apply for an urban ILTER. The enormous and rapidly growing importance of cities in the developing world and the obvious environmental significance and complexity of cities means that an enormous amount of new and original research on urban socio-economic and environmental issues can be done in Dakar and other African cities. Dakar has around three million inhabitants and has serious environmental problems that directly impact its inhabitants and its terrestrial and marine environments. The collection of accurate socio-economic and environmental data in urban environments at low cost and the development of ways to model urban areas as complex strategy spaces with serious development traps has the potential to revolutionize urban planning and urban development in the poorer cities of the globe. The use of transformational growth matrices also allows us to create a simplified version of the urban environment suitable for agent based modeling. We hope to contribute significantly to the interfacing of ABM and GIS in urban contexts using the Repast / Symphony framework being developed at the Argonne National Laboratory.

2002-3 With Mary Stiner and Steve Lansing, funding from NSF and the Santa Fe Institute for a conference on Robustness held May 28, 2003 in Santa Fe.

- 2001 Received \$12,000 from the Vice President for Research's Office to cover transportation to the NSF funded conference for my urban grant. Conference was held in Dakar, Senegal 6-10 January, 2003.
- 2001 Received \$45,000 from NSF in March 2002 for a conference for the Six Cities Project. Conference was held in Dakar, Senegal 6-10 January, 2003.
- 2001 Received \$16,000 from NSF as a supplement to my urban grant.
- 1999-2003 (NSF 9817743, #0138217) I have been the PI (Mamadou Baro, Gary Christopherson and Stuart Marsh co-PIs) on a grant funded by NSF (\$499,735) for a grant to build a broad picture of urbanization in Africa and its impact on the natural resources of urban hinterlands through the use of remote sensing imagery and, at a later stage, urban research focussing on the poorer segments of six cities (Marrakech, Dakar, Bamako, Niamey, Dodoma and Gaborone). We developed a diachronic picture of change in urban features such as garbage dumps, shanty towns, built up urban areas, market gardens etc that will allow one to hypothesize about the differential impact on the environment of demographic trends among the rich and poor or business and government urban sectors. The grant is titled, "Creation of a GIS for six Cities in Arid Environments: in Morocco, Senegal, Mali, Niger, Tanzania, and Botswana."

Development and NSF Research Related Reports, Presentations, and Papers

- 2010 Reports and presentations (in French) related to NSF grant "Desertification" or "Greening"? written with field assistants Aminata Niang, Abdoul Aziz Diouf and Amadou Hadji. Key inputs by Dr. Stefanie Herrmann and Dr. Mamadou Baro were made in the powerpoint presentation (below). Each synthesis presenting analysis of village level data collected in January of 2010 was provided to our local partner institution, Centre de Suivi Ecologique, in February 2010 prior to our departure:

Désertification ou reverdissement? Compte rendu et résultats préliminaires d'une étude dans le Sine et le Saloum. Powerpoint presented to the faculty of the Centre de Suive Ecologique 5 February 2010.

Synthèse Village de Bokki Dior, Communauté Rurale; Ribot Escale. Arrondissement Lour Escale, Département de Kounghel, Région de Kaffrine. 10 pages.

Synthèse Village de Bondie, Communauté Rurale; Gnibi. Arrondissement Gnibi, Département de Mmalem Hodar, Région de Kaffrine. 10 pages.

Synthèse Village de Diatmel, Communauté Rurale; Gaint Pathe. Arrondissement Missira, Département de Kounghel, Région de Kaffrine. 10 pages.

Synthèse Village de Keur Mor Ngone Fall, Communauté Rurale; Ngathie. Arrondissement Kahone, Département de Guinguineo, Région de Kaolack. 10 pages.

Synthèse Village de Ngouk Khoube, Communauté Rurale; Medinatoul Salam 2. Arrondissement Nganda, Département de Kaffrine, Région de Kaffrine. 10 pages.

Synthèse Village de Touba Wene Ayre, Communauté Rurale; Misira. Arrondissement Misira, Département de Kounghel, Région de Kaffrine. 10 pages.

- Synthèse Village de Wendou Gniwa, Communauté Rurale; Ndiago. Arrondissement Mbadakhoue, Département de Guinguineo, Région de Kaolack. 10 pages.
- Synthèse Village de Wouro Ndioundia, Communauté Rurale; Mbar. Arrondissement Colobane, Département de Gossas, Région de Fatick. 10 pages.
- Synthèse Familles des Transhumants, Communauté Rurale; Ndiago. Arrondissement Mbadakhoue, Département de Guinguineo, Région de Kaolack. 10 pages.
- Synthèse des Synthèses. (General Overview). 10 pages
- 1990 With Mamadou Baro and Tidiane Ngaido. Conflicts over land and the Crisis of Nationalism in Mauritania. Report for the Land Tenure Center, University of Wisconsin-Madison and USAID. LTC Paper No. 142. 53 pp.
- 1988 With Juan Sève. Appreciation de la methodologie de l'étude de la consommation de bois de feu à Casablanca dans le cadre du secteur forestier du Maroc. International Science and Technology Institute, Inc. and the Ministère de l'Energie et des Mines for USAID, and the Ministère de l'Agriculture, Royaume du Maroc. 35 pages.
- 1988 With Juan Sève. Assessment of the methodology of the fuelwood consumption study in Casablanca as related to the Moroccan Forestry Sector. International Science and Technology Institute, Inc. and the Ministère de l'Energie et des Mines for USAID, and the Ministère de l'Agriculture, Royaume du Maroc / Government of Morocco, Rabat. 30 pages.
- 1987 Land Tenure and development in the Islamic Republic of Mauritania: Fuuta Tooro and the Gorgol Region.. Report distributed to USAID and governments of Mauritania and Senegal in English and French (80+ copies) which synthesizes land tenure in the Senegal River Valley. French version since revised into book form. 232 pp.
- 1987 [50%] with Robert Varady, Development in the Senegal River Basin: A Bibliography of Holdings at the University of Arizona 800+ items mostly from Dr. Park's personal collection. Produced for USAID and the Institute for Development Anthropology, Binghamton, N.Y.
- 1987 Land Tenure Study of the Dirol Plain. Land Tenure Center, University of Wisconsin-Madison, 125 pp. + 32 pp. appendices.
- 1987 Etude du Régime Foncier dans la Plaine du Dirol. Land Tenure Center, University of Wisconsin-Madison, 131 pp. + 39 pp. appendices.
- 1986 Preliminary Land Tenure Study of the Dirol Plain Land Tenure Center, University of Wisconsin-Madison 150p + 34p Appendices
- 1986 Etude Préliminaire du Régime Foncier dans la Plaine du Dirol Land Tenure Center, University of Wisconsin- Madison. 161p + 38p Appendices. Translated from English by author and Omar Aw.

Editorial work and Reviewing

2001-> Reviewer for NSF proposals

1994-> Editor of Journal of Political Ecology

1987-> Reviewer for numerous journals domestic and foreign including American Anthropologist and PLOS ONE.

Student Mentoring last three years

a. Undergraduate Advised honors thesis

I have not advised any undergraduate honors thesis in the last three years.

Undergraduate Advised independent study

I have advised ano undergraduate independent studies in the last three years.

b. Graduate Students: advisor pre-MA

I have advised new students (1- 2) two of the last three years because I taught a required core course but this does not involve significant amounts of work and I see no point in itemizing the students.

c. Graduate Students: Independent Studies

I have provided independent studies to about five graduate students per year over the last three years: including most recently; Rebecca Wey, Micah Boyer, Allison Davis, Felix Ampadu, Angela Storey.

d. Advisor: Recent MA theses

Micah Boyer, Angela Storey,. Rebecca Wey

e. Member of MA committee last three years

Angela Storey.

f. Member of Prelim committee— (* designates head of committee, bold=current)

*Satoshi Abe, ***Felix Ampadu**, Shawkat Ara, Luis Barros, *Aomar Boum, William Bradley (Education Department), Carlos DelCairo, *Anita Carrasco, *Michael Coffey, *Allison Davis, *Tara Deubel, Scott Denton (Education Department), Sean Downey, JoAnn Di Filippo (Cultural Studies), Katherine Holmsen, *Joshua Holst, *Bayo Ijagbemi, *Mourad Mjahed, Edward Morgan (Education Department), Martha Morgan, Mamadou Niane (Office of Arid Lands Studies), *Aminata Niang, *Victoria Phaneuf, Marie Sardier, *Trent Shipley, Becky Schulties, *Angela Storey, *Peter Taber, Trenna Valado, David Van Sickle, Yi-Shing Chung, Sutee Verawan, **Rebecca Wey**, Tao Yang.

g. Advisor Ph.D. dissertation (* = Finished)

*Satoshi Abe, *Julianna Acheson, Felix Ampadu, *Mamadou Baro, *Aomar Boum, Micah Boyer, *Anita Carrasco, *Michael Coffey, *Tara Deubel, Allison Davis, *Annika Ericksen, *Gina Gemignani, *Joshua Holst, *Bayo Ijagbemi, *Hsain Illahiane, *Jon Haukur Ingamundarson, *Beth Kangas, *Kristin Loftsdottir, *Mourad Mjahed, *Aminata Niang, *Janice Newberry, *Ahmadou N'diade, *Victoria Phaneuf, Trent Shipley, *Angela Storey, *Charlie Stevens, *Marcela Vasquez, Rebecca Wey.

h. Member of Ph.D. committee – *=dissertation defended

*William Alexander, *Shawkat Ara, *Catherine Besteman, *William Bradley (Education Department), *Carlos DelCairo, Nicolas Espinoza, *JoAnn Di Filippo (Cultural Studies), *Sean Downey, *Rob Emmanuel, *Katherine Holmsen, *Futoshi Kinoshita, *Murray Lepkin, *Edward Morgan (Education Department), *Martha Morgan, *Mamadou Niane (Office of Arid Lands Studies), Marie Sardier, *Becky Schulties, *Andrea Smith, *Trenna Valado, *David Van Sickle.

Student Support

a. PI/co-PI or advisor of grants received by graduate students

Miscellaneous small grants for Aomar Boum, Tara Deubel, Bayo Ijagbemi, Mourad Mjahed,.

b. Personal grants which support RA's at any level

2016-17: I provide a quarter time RAship to Felix Ampadu from one of my accounts.

2014-6: I provide a number of small \$1500 scholarships to grad students out of funds from the Provost: including in 2016 toRebecca Wey and Amanda Hilton.

My NSF grant (1999-2003) provided funding for Aomar Boum (1 year full expenses) and Mourad Mjahed (one quarter time RA funding for several years - through the component administered by the Center for Applied Spatial Analysis and co-PI Gary Christopherson), as well as for six graduate students in the Office of Arid Lands Studies (3 years of half time RA funding) and for Allison Davis, Marie Sardier and Aomar Boum plus several graduate students from the Office of Arid Lands Studies to participate in a conference for the project held in Dakar in January 2003.

My NSF grant 2007-2012 (Desertification or Greening) has supported a half-time RAship for Aminata Niang for five semesters - student support ending December 2010. I use funds from my Provost's Office account (funds allocated from serving as IRB chair), to support graduate and undergrad students in a small way.

c. Publications with students

Book

2016 with Aomar Boum. *Historical Dictionary of Morocco*. Third Edition. Updated and expansion of Park and Boum 2006. Scarecrow Press, University Presses of America, Lanham, Md..

2006 With Aomar Boum. *Historical Dictionary of Morocco*. Revised and roughly doubled in size expansion of Park 1996. Scarecrow Press / University Presses of America, Lanham, Md.

Chapters

2013 with Mourad Mjahed and others *Urban Sociology in Poor Cities of Africa and the Middle East : a New Methodology Inspired by Robert E. Park's Urban Ecological Approach*. In *The Chicago School Diaspora: Epistemology and Substance*. Jacqueline Low and Gary Bowden (Eds) McGill Queens University Press: pp. 199-209.

2001 With Hsaïn Ilahiane. Sources for the socio-economic study of rural Morocco. *International Journal of Middle East Studies* 33 (2001), 271-290..

Review

2001 With Aomar Boum. Review of Remco Ensel. *Saints and Servants in Southern Morocco*. Leiden, Boston, Koln: Brill, 1999 in the *Journal of North African History*.

Scholarly Presentations

2007 29 January. Talk presented at Intel (Hillsboro Oregon): Modeling the urban household: perspectives on development in Islamic Cities (with input by Mourad Mjahed and Luis Cisneros).

2005 With Mourad Mjahed and Luis Cisneros. Modeling complexity in urban spaces of the developing world: an ecological approach to socio-economic strategies. Presented at the conference, Next Generation Simulations of Human-Environmental Interactions Working Group. Santa Fe Institute, University of Arizona & Arizona State University, December 12-14, 2005, Tucson, AZ.

2003 With Mourad Mjahed. Mapping household demographics in Marrakech, Bamako, and Niamey. SfAA annual meetings in Portland, Oregon.

2003 With Mourad Mjahed. Mapping household demographics in Marrakech, Bamako, and Niamey. SfAA annual meetings in Portland, Oregon.

Service

Service to the Department – last six years

Committees Chaired: Bara/Anthro

Committees served on: Faculty Status, Admissions, Curriculum, Dozier, Executive, Scholarships, Scheduling.

Service to the University last 8 years

I Chair the Institutional Review Board (IRB) Human Subjects Social Science Committee (member 2003 to present). This committee now requires 3-4 hours work per week plus participation in the bi-weekly board meetings. I spent about 120 hours in 2016 doing IRB work. I joined the committee in Fall 2003 after a training session in the summer. Chairs work during the week to sign off on proposals that do not need to come to the board and adjudicate all problem proposals either one on one with the researcher or in full committee review - few of the latter come up for the behavioral and social sciences these days but one on one discussions are fairly numerous . The head of the Human Subjects Program regularly sends out a letter to remind Performance Evaluation members that chairing the IRB takes far more hours than a normal university of departmental committee.

Service to the Community and/or State

My work is international and I have been working in seven countries in Africa with municipalities to improve their urban information systems since 1999: Morocco, Mauritania, Senegal, Mali, Niger, Tanzania, and Botswana. I have also worked with the Government of Mauritania to help resettle refugees and with institutions the States of Senegal and Mauritania to study the causes of desertification and greening

Service to Profession last six years

Member NSF sponsored 30 member group to discuss a resilience best practices paper at the University of Chicago Computational Institute October 2012, co-author with five colleagues to write a Best Practices Resilience Paper to be published in PNAS - still in revision.

Keynote speaker, EPSCoR Conference (NSF funded), Anchorage, Alaska, 14 May 2009.

Editor, Journal of Political Ecology, **reviewer for several journals including** American Anthropologist

Countless letters of recommendation for former graduates of our program on whose committees I have served.

Discussant, NSF Workshop on Collaboration with Sub Saharan Africa, Washington, January 2005.

Discussant, Social Dimensions of Hohokam Irrigation: Perspectives Across Cultures and Time. Workshop. Feb. 27-Mar.1, 2003. Tempe.

Member NSF biocomplexity panel reviewing 56 proposals, Washington, 2002.

Conferences Organized

2003 With Steve Lansing and Mary Stiner, received NSF funding for a conference at the Santa Fe Institute: on Robustness of Coupled Human and Natural Systems bringing together scholars from the US and Europe with a broad range of social science and natural science specialities.

2002 NSF funded conference in Dakar, Senegal to present some of the results of my Six Cities grant with 30 participants from seven countries including support for six graduate students from U of A to present papers. I obtained the funding and organized the conference including logistics from around Africa and the US -- lodging in Dakar, professional simultaneous translation etc.

Positions of students who have graduated with a Ph.D.:

advisees

Satoshi Abe, Nagasaki University
Julianna Acheson, U of Maine at Farmington, Department of Anthropology
Mamadou Baro, U of A, School of Anthropology
Aomar Boum, UCLA Department of Anthropology
Anita Carrasco, Luther College, Department of Anthropology, Decatur, Illinois.
Michael Coffey, TEP, Senior Economist, Tucson AZ.
Tara Deubel, University, of South Florida Department of Anthropology
Regina Gemignani, Postdoctoral Fellow UC Davis.
Joshua Holst, visiting Professor, Colorado College
Hsaïñ Ilahiane, U of Kentucky, Associate Professor, Department of Anthropology
Bayo Ijagbemi, U of A, Associate Professor, Africana Studies Program
Jón Haukur Ingamundarson, Senior Scientist, Stefannson Arctic Institute, Iceland
Beth Kangas, Anthropology Oakland University, Rochester MI, adjunct ?
Kristin Loftsdóttir, University of Iceland, Department of Anthropology
Mourad Mjahed, Southwest College, San Diego
Ahmadou N'diade, Senior Researcher, ACDI/VOCA
Janice Newberry, University of Lethbridge, chair, Department of Anthropology, Alberta, Canada
Victoria Phaneuf, Federal research, EPA, New Orleans.
Charlie Stevens, Miami University, Senior Lecturer American Studies and International Studies
Angela Storey, Assistant Professor, Department of Anthropology, University of Louisville.
Marcela Vasquez, U of A, School of Anthropology, BARA and Chair, LAAS

almost advisees

Catherine Besteman, Colby College, chair, Department of Anthropology, Maine
Futoshi Kinoshita, University of Tsukuba, Japan
Andrea Smith, Lafayette College, Department of Anthropology