Scott E. Ingram

Curriculum Vitae

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EDUCATION

Ph.D. Anthropology, Arizona State University, 2010
Dissertation: Human Vulnerability to Climatic Dry Periods in the Prehistoric U.S. Southwest
Committee: Margaret Nelson (Chair), David Abbott, Keith Kintigh, Ann Kinzig, Charles Redman

M.A. Anthropology, Arizona State University, 2004
Thesis: Streamflow and Population Change in the Lower Salt River Valley of Central Arizona, ca. A.D. 775 to 1450

M.A. Political Science, Oklahoma State University, 1984
Thesis: Congressional Environmental Voting: An Analysis of the Impact of Partisanship, Ideology, and Constituency Characteristics

B.S. Political Science (with Honors), Oklahoma State University, 1982

CURRENT POSITION

Adjunct Professor, Arizona State University. Research team member on three National Science Foundation projects based at ASU: "Resilience and Vulnerability to Climate Change," "Alliance and Landscape: Perry Mesa in the Fourteenth Century," and (if funded) "Productivity and Large-scale Irrigation: Testing a Radical Model of the Hohokam Economy."

PUBLICATIONS – Peer Reviewed

Spielmann, Katherine A., Margaret Nelson, Scott Ingram, and Matthew A. Peeples (2011). Sustainable Small-Scale Agriculture in Semi-Arid Environments. *Ecology and Society 16(1): 26. [online] URL:* http://www.ecologyandsociety.org/vol16/iss1/art26/

Ingram, Scott E. (2008). Streamflow and Population Change in the Lower Salt River Valley of Central Arizona, ca. A.D. 775 to 1450. *American Antiquity* 73:136-165.

Biggs, R., C. Raudsepp-Hearne, C. Atkinson-Palombo, E. Bohensky, E. Boyd, G. Cundill, H. Fox, S. Ingram, K. Kok, S. Spehar, M. Tengö, D. Timmer, and M. Zurek (2007) Linking Futures Across Scales: a Dialog on Multiscale Scenarios. *Ecology and Society* 12(1): 17. [online] URL: http://www.ecologyandsociety.org/vol12/iss1/art17/

Abbott, David R., Scott E. Ingram, and Brent G. Kober (2006). Hohokam Exchange and Early Classic Period Organization in Central Arizona: Focal Villages or Linear Communities? *Journal of Field Archaeology* 31:285-305.

Spielmann, Katherine A., Margaret Nelson, Scott Ingram, and Matthew A. Peeples (in press). Mitigating Environmental Risk in the U.S. Southwest, In *Sustainable Lifeways: Cultural Persistence in an Ever-changing Environment*, edited by N. Miller and K. Moore.

M.C. Nelson, M. Hegmon, K.W. Kintigh, A.P. Kinzig, B.A. Nelson, J.M. Anderies, D.A. Abbott, K.A. Spielmann, S.E. Ingram, M.A. Peeples, S. Kulow, C.A. Strawhacker, C. Meegan. (in press). Long-term Vulnerability and Resilience: Three Examples from Archaeological Study in the Southwestern U.S. and Northern Mexico. In *Learning to Live with Climate*

Change: Understanding Hazards, Mitigating Impacts, Avoiding Disasters, edited by Jago Cooper and Payson Sheets.

PUBLICATIONS – Edited or Not Peer Reviewed

Ingram, Scott E. (2011). Climatic, Demographic, and Environmental Influences on Central Arizona Settlement Patterns. Chapter of edited volume, *Alliance and Landscape on Perry Mesa in the Fourteenth Century,* edited by David Abbott and Katherine Spielmann, accepted and forthcoming.

Ingram, Scott E., and Douglas B. Craig (2010). Streamflow and Population Dynamics Along the Middle Gila River. *Journal of Arizona Archaeology* 1:33-45.

Ingram, Scott E. (2009). Salinas Paleoclimate, A.D. 1100 to 1700. In *Salinas Contributions to the Study of Long-term Coupled Socioecological Change in the Southwest and Northern Mexico,* by Katherine A. Spielmann, Scott Ingram, Stephanie Kulow, Matthew Peeples, and Cathryn Meegan. Report submitted to the Western National Parks Association and Salinas Pueblo Missions National Monument, August 16, 2009.

Abbott, David R., Scott E. Ingram, and Katherine A. Spielmann (2008). Warfare and Farming: National Science Foundation Research on the Late Prehistoric Occupation of Perry Mesa. In *Prescott to Perry Mesa: 4,000 Years of Adaptation, Innovation, and Change in Central Arizona*, edited by Christine K. Robinson, Cory Breternitz, and Douglas R. Mitchell, pp. 20.1-20.11. Sharlot Hall Museum Press, Prescott.

Minnis, Paul E. (2006). Answering the Skeptic's Question (2006). *SAA Archaeological Record* 6 (5):17-20, contributions by Barbara J. Little, Robert Kelly, Scott E. Ingram, Dean Snow, Lynn Sebastian, and Katherine A. Spielmann. Online at: https://docs.google.com/viewer?url=http://www.saa.org/Portals/0/SAA/Publications/thesaaarchrec/nov06.pdf

Jacobs, David, and Scott E. Ingram (2008). Vegetation Map of Phoenix, Arizona, 1867–1868. *Central Arizona – Phoenix Long-Term Ecological Research Contribution No. 3*, Center for Environmental Studies, Arizona State University, Tempe.

MANUSCRIPTS IN PREPARATION OR UNDER REVIEW

Ingram, Scott E., Andrew Dugmore, Jette Arneborg, George Hambrecht, Michelle Hegmon, Keith Kintigh, Thomas McGovern, Margaret Nelson, Richard Oram, Matthew Peeples, Katherine Spielmann, Orri Vesteinsson. Climatic Hazards and Social Transformations in the North Atlantic Region and the U.S. Southwest, 900 to 1500 CE. To be presented at the International Congress of Arctic Social Sciences conference in Iceland, 22-26 June 2011

Ingram, Scott E. (2011). Human Vulnerability to Climatic Dry Periods in the Prehistoric U.S. Southwest. Journal article, in preparation for *American Antiquity*.

Hunt, Robert C., and Scott E. Ingram (2011). Plant and Animal Production Calendar for Phoenix Basin Prehistory. In preparation.

Hunt, Robert C., and Scott E. Ingram (2011). Sonoran Desert Maizes: Yield per Unit of Land and Water. Draft complete and to be a chapter in Hunt's book: *Corn and Cotton*, in preparation.

SELECT CONFERENCE PAPERS (* invited)

Ingram, Scott E. (2011). Organizer of symposium, "What We Don't Know about Agriculture in the Prehistoric American Southwest" (selected as an Amerind Seminar finalist) and presenter, *What We Don't Know About Human Vulnerability to Dry Periods,* at the Society for American Archaeology Annual Meeting, 3 March – 3 April 2011, Sacramento, CA.

Ingram, Scott E. (2010). *Vulnerability to Climatic Dry Periods in the Prehistoric U.S. Southwest*. Paper presented at the Philmont Archaeological Conference, 16 October 2010, Cimarron, NM.

* Nelson, M., M. Hegmon, K. Kintigh, A. Kinzig, B. Nelson, J. Anderies, D. Abbott, K. Spielmann, S. Ingram, M. Peeples, S. Kulow, C. Strawhacker, C. Meegan (2010). Diversity and Resilience: What We Can Learn from the Archaeological Record, Part I. Messages from Past Societies on Biological Diversity: Exploitation of Nature, Worldview, and Human Evolution. Academic Workshop associated with the Convention on Biological Diversity, United Nations Environment Programme, 18-29 October, Nagoya, Japan.

* Ingram, Scott E. (2010). *Regional Influences on Central Arizona Population Dynamics*. Paper presented at the Society for American Archaeology Annual Meeting, 14-18 April 2010, St Louis, Missouri.

* Ingram, Scott E. (2010). *Conflict and Climate in Central Arizona.* Paper presented to representatives of U.S. Forest Service, Bureau of Land Management, and local Native America communities. Meeting was a report on the results of the NSF Grant, Alliance and Landscape: Perry Mesa in the Fourteenth Century. 12-13 May 2010, Tempe, Arizona.

* Ingram, Scott E. (2009). *Conflict and Climate in the North American Southwest. P*aper presented at the Society for American Archaeology Annual Meeting, 22-26 April 2009, Atlanta, Georgia.

* Ingram, Scott E. (2009). *Climatic Influences on Human Behavior.* Presentation at the 89th Annual American Meteorological Society Meeting, 11-15 January 2009, Tempe, Arizona.

* Ingram, Scott E., and Douglas Craig (2008). *Streamflow and Population Dynamics along the Middle Gila River*. Paper presented at the Arizona Archaeological Council Conference, Advances in Hohokam Archaeology. 24-25 October 2008, Phoenix, Arizona.

Ingram, Scott E. (2008). *"Megadroughts" and the 15th Century Depopulation of Central and Southern Arizona.* Paper presented at the Society for American Archaeology Annual Meeting, 26-30 March 2008, Vancouver, Canada.

Hunt, Robert C., and Scott E. Ingram (2007). *Double-Cropping Maize on the Middle Gila River: Intra-annual River Regime and Canal Management in the Classic Period.* Paper presented at the Arizona Archaeological Council Fall 2008 Conference, "Going with the Flow: Prehistoric Irrigation Technology," Tempe, Arizona.

Ingram, Scott E. (2007). *Hohokam Settlement Pattern Changes and Climate in Central and*

Southern Arizona. Paper presented at the Society for American Archaeology Annual Meeting, 26 April 2007, Austin, Texas.

Abbott, David R., Scott Ingram, and Katherine A. Spielmann (2007). *Warfare and Farming: NSF Research on the Late Prehistoric Occupation of Perry Mesa*. Paper presented at the Arizona Archaeological Council 2007 Spring conference, Prescott Arizona. To be published within the symposium monograph.

Ingram, Scott E. (2006). Forum organizer, discussant, and moderator with (Margaret Nelson): *Stepping Out: Contemporary Relevance of Archaeological Research.* Society for American Archaeology Annual Meeting, Puerto Rico.

Anderies, John M., David A. Abbott, and Scott E. Ingram (2005). *Diversity in Subsistence Strategies and Transformation: The Hohokam of the Phoenix Basin*. Paper presented at the American Anthropological Association Annual Meeting, Washington, D.C.

Ingram, Scott E. (2005). *Archaeological Contributions to Contemporary Socioecological Issues*. Paper presented at the American Anthropological Association Annual Meeting, Washington, D.C.

Ingram, Scott E. (2005). *Streamflow and Demography in the Lower Salt River Basin of Central Arizona*. Paper presented at the Society for American Archaeology Annual Meeting, Salt Lake City, Utah.

HONORS, FELLOWSHIPS, AND GRANTS

Fellow, National Science Foundation, Integrated Graduate Education and Research Training, IGERT (2003 – 2010). Interdisciplinary program in Urban Ecology sponsored by the School of Sustainability, Arizona State University. Objective of the program is to educate graduate students to become broad, flexible, collaborative, and adept at linking science and social issues. Provided tuition and stipend.

Graduate College Dissertation Writing Fellowship, Arizona State University (2009-2010) One-year award includes stipend, tuition, and health insurance. Only sixteen dissertation fellowships awarded in all disciplines across the university.

Agnese N. Haury Visiting Scholar and Trainee Fellowship (2006). Laboratory of Tree-Ring Research, University of Arizona. The focus of the fellowship is dendroclimatological research in the U.S. Southwest. Financial and educational benefits awarded.

Ruppe Prize in Archaeology, Arizona State University, School of Human Evolution and Social Change (2006). Graduate student writing competition. Received Honorable Mention for "Streamflow and Population Change in the Lower Salt River Basin of Central Arizona, ca. A.D. 775 to 1450."

Travel Grants, Graduate College and School of Human Evolution and Social Change, Arizona State University (2008-2010). Awarded four separate conference travel grants totaling $2,000.

TEACHING EXPERIENCE

Courses taught as Instructor of Record

Research Methods Seminar, HON 494, Barrett Honors College, Community of Undergraduate

Research Scholars, Arizona State University (Spring 2008). Co-taught with Margaret Nelson. Intensive research methods seminar for select Honors college students. Taught methods, led seminar-style discussions, held office hours, and provided extensive mentoring outside of classroom. Average student evaluation for teaching: 4 out of 4.

Introduction to American Government, POLSC 1013, Oklahoma State University (1982-1984) Taught eleven, 3-credit classes as sole instructor of record. Developed course syllabus, selected text book, held office hours. Class size 40 – 150 students.

Teaching Assistant or Other Instructional Positions

Mentor in National Science Foundation Research Experience for Undergraduates (REU) program, Arizona State University (2006-2007). Mentored undergraduate student during academic year on her Honors Thesis research.

Discussion Leader and Organizer of Urban Ecology Reading Group, Arizona State University (Fall 2006). Developed syllabus and led discussions (with two other students) for this interdisciplinary course on urban ecology concepts. Class size 20.

Teaching Assistant/Field Crew Supervisor, Ohio Hopewell Craft Production Project, Bainbridge, Ohio, Arizona State University (2005, summer). Instructed and supervised undergraduate students during this five-week archaeological field school.

Teaching Assistant. Introduction to Quantitative Methods, Oklahoma State University (1984). Assisted in course instruction and grading of papers. Class size 20.

Teaching Outside the Classroom and Educational Leadership Experiences

Field Intern, Crow Canyon Archeological Center, Cortez, Colorado (2004, 10-week summer program). Taught and supervised participants (ages 13 to 75) in basic excavation techniques, archaeological concepts, and Ancestral Puebloan culture history.

Executive Director, Breckenridge Outdoor Education Center, Breckenridge, Colorado (1990–1993). BOEC, a non-profit organization, is a national leader in outdoor adventure education for people of all ages with disabilities and special needs. Provided operational, development, and curriculum leadership. Raised $500k, started an endowment, doubled participants in three years, and completed a new facilities building project. Also served as an instructor for team-building and leadership activities. Led staff of 18.

U.S. Peace Corps Volunteer, Department of Agriculture, Philippines (1989–1990). Taught and assisted small-scale agriculturalists and 4-H Youth Program with agricultural production and income-generating projects. Worked for the Philippine Department of Agriculture. Focused on a community irrigation project to enable a second rice crop.

Field Office Coordinator, Institute for Shipboard Education, Semester at Sea, University of Pittsburgh (1985–1988, also includes other positions). Designed educational field trips into twelve countries for undergraduate and faculty participants on semester-long around-the-world academic voyages. Worked with faculty to develop educational experiences in each country to complement on-ship course curricula (e.g., visits to universities and places of historical and cultural significance). Also taught international travel techniques and cultural sensitivity to undergraduate participants. Employed on-ship and in the program office in Pittsburgh.

Chief Ranger, Philmont Scout Ranch, Cimarron, New Mexico (1984–1988 summer, plus other positions 1978-1983). Taught, refined curriculum, led, and hired 175 undergraduate-aged staff annually for five years. The Ranger staff taught outdoor skills to young men and women (aged 13 to 21) and their adult leaders to prepare for 12-day backpacking expeditions in the southern Rocky Mountains. Also responsible for leading search and rescue operations. The Chief Ranger position was the highest seasonal position at Philmont.

RESEARCH POSITIONS AND EXPERIENCE

Research assistantship funded by National Science Foundation grant: "Alliance and Landscape: Perry Mesa, Arizona in the Fourteenth Century" (September 2008 to December 2008). PI: David Abbott and Katherine Spielmann. Produced book chapter: "Climatic, Demographic, and Environmental Influences on Central Arizona Settlement Patterns" and presented three related papers at professional conferences.

Research assistantship funded by National Science Foundation, Biocomplexity in the Environment, Dynamics of Coupled Natural and Human Systems, "Long-Term Socioecological Change in the American Southwest and Northern Mexico" (January 2006 to August 2008). PI: Margaret Nelson. Characterized climate variation and hazards in five culture areas through a synthesis of available research and original work. Co-author on three resulting peer-reviewed publications.

Research assistantship funded by the James S. McDonnell Foundation Twenty-first Century Research Award/Studying Complex Systems, "Spatiotemporal Aspects of Resilience in Complex Urban Systems" (August 2002–May 2003). PI: Ann Kinzig and Charles Redman. Produced sole-authored paper in *American Antiquity* (Ingram 2008) and managed project to produce an historic vegetation map of Maricopa County, Arizona circa 1868 from historical survey data.

Research assistantship funded by Center for Environmental Studies and the Archaeological Research Institute, Arizona State University (August 2001 to May 2002). Created a resource library and database of existing paleoecological data from Maricopa County, Arizona and assisted in archaeological curation activities and public outreach.

Project team member for ASU working group of the Integrated History and Future of People on Earth (IHOPE) project. Developed data for project. Attended data development meeting, Santa Fe Institute (Summer 2008). http://www.aimes.ucar.edu/ihope/

Archaeological field experiences: (1) Field Crew Supervisor, Ohio Hopewell Craft Production Project, ASU (summer 2005); (2) Field Intern, Crow Canyon Archaeological Center, Cortez, Colorado (summer 2004); (3) Crew member, field school student. Virginia City, Montana. University of Montana (August 2001); (4) Crew member, field school student. Mitchell Springs, Cortez, Colorado. Glendale Community College (June 2001).

SELECT PROFESSIONAL EXPERIENCE

Vice President, Product and Brand Development (1998–2000). Wells Fargo Bank, San Francisco. Later, InnoVentry (a technology startup company funded by Wells Fargo and CapitalOne). Developed and deployed two new consumer brands and five new products in two years. Led staff of twelve designers and engineers in product development process. Also, Vice President, Corporate Priorities (2000–2001).

Evaluated potential strategic initiatives to determine corporate priorities. Reported directly to CEO, President, and CFO of InnoVentry.

President and Chief Operating Officer. Monterey Water Company. Manteca, California (1993-1998). Raised $7 million in equity capital from investors (one of three corporate officers responsible). Co-founded and directed company operations. Led corporate growth strategy through site selection, leasing, regulatory permitting, and construction of all new locations. Grew revenue from $0 to $1 million annually. Opened 75 new outlets in 25 cities in four years. Monterey Water Company is an on-going business offering purified drinking water in 150 locations in California.

PROFESSIONAL MEMBERSHIPS

Society for American Archaeology
American Anthropological Association
Arizona Archaeological and Historical Society