

Curriculum Vita: Jarita C. Holbrook  
Assistant Research Scientist  
Bureau of Applied Research in Anthropology  
Anthropology Building Room 316  
University of Arizona  
Tucson, AZ 85721-0030

Office Phone: 520-626-3883

FAX: 520-621-9608

Citizenship: USA

Married, Children: 2

#### EDUCATION:

1997 Doctorate of Philosophy [Ph.D.]

Astronomy & Astrophysics, University of California, Santa Cruz, CA

Dissertation: An Examination of the Composition and Structural Features of GL 2136 and Orion BN-KL: Single vs. Cluster Star Formation

1992 Masters of Science [MS]

Astronomy, San Diego State University, San Diego, CA

Thesis: Two-Dimensional Temperature Mapping of the Planetary Nebula NGC 6572

1987 Bachelors of Science [BS]

Physics, California Institute of Technology, Pasadena, CA

#### RESEARCH PROGRAM:

Since 1997 my research has focused on the comparative study of astronomy knowledge in Africa: its cultural significance, techniques, uses, pedagogies, as well as how it enters into various cultural forms of expression and sociopolitical structures. My data collection methods include ethnographic fieldwork, archival research, and cultural astronomy/ethnoastronomy methods such as celestial body identification and unraveling astronomical symbols found in material culture.

#### EMPLOYMENT:

6/12/02 – Present Assistant Research Scientist, Bureau of Applied Research in Anthropology, University of Arizona, Faculty. Teaching, committee, mentoring, and research duties. Tenure eligible in 2008.

8/15/01 - 1/15/02 Adjunct Professor, Africana Studies Department, University of Arizona.

7/01 - 3/02 Postdoctoral Fellow, Max Planck Institute for the History of Science, Berlin.

#### VISITING POSITIONS:

6/06, 6/07 Visiting Professor, Institut für Ethnologie, Ruprecht-Karls-Universität Heidelberg, Germany

8/15/00 - 6/2/02 Visiting Professor, Anthropology Department, University of Arizona.

9/12/97 - 10/1/01 Visiting Scholar/Postdoctoral Researcher, Center for the Cultural Studies of Science, Technology, and Medicine. History Department. University of California, Los Angeles. Worked closely with Prof Sharon Traweek.

8/1/99 - 8/1/00 Visiting Professor, Department of Seamanship and Navigation, United States Naval Academy, Annapolis, MD. Celestial navigation research.

10/1/98 - 2/1/99 Visiting Professor, Physics and Astronomy Department, Colgate University, Worked closely with Prof Anthony Aveni.

**TEACHING:**

Fall 2006 Cultural Astronomy: Africa. Anthropology and Astronomy Depts, University of Arizona, Tucson. ASTR/ANTH 345

Spring 2006 Ghana Internship Class, Anthropology Dept, University of Arizona, Tucson. Nine students traveled with me to Ghana for the total solar eclipse and cultural astronomy training. ASTR/ANTH 493

Spring 2004 Data Management and Analysis, Anthropology Dept, University of Arizona, Tucson. Co-taught course with Prof Diane Austin, minimal duties due to maternity leave. ANTH 537

Fall 2001 Adjunct Professor: African Philosophical Worlds, Africana Studies Department, University of Arizona, Tucson.

Spring 1998 Lecturer: African American Scientists Since 1865, African American Studies, UC-Los Angeles.

Fall 1995 Graduate Teaching Assistant: "The Solar System" Astronomy Board, UC-Santa Cruz.

July 1995, July 1996 Instructor: Astronomy. Seaside Jr. High Math/Science Institute, UC-Santa Cruz.

Summer 1992 Instructor: Astronomy and Geology. The Elementary Institute of Science, San Diego, CA.

1991 - 1992 Tutor: Physics, astronomy, & mathematics, SAA/EOP, San Diego State University, CA.

Spring 1992 Instructor: Astronomy Laboratory, Southwestern College, Chula Vista, CA

Fall 1991 Graduate Teaching Assistant: Astronomy Laboratory, San Diego State University.

1989-1990 Secondary School Science Teacher: Chemistry, Physics, and Mathematics, Ratu Navula Secondary School, Fiji, South Pacific, Peace Corps

#### HONORS & AWARDS:

2003-2007 Fulbright Senior Specialist

2001 Postdoctoral Fellowship, Max Planck Institute for the History of Science

2000 National Society of Black Physicist Distinguished Dissertation Award

1998 National Science Foundation Minority Postdoctoral Fellowship

1996-1997 UC President's Dissertation Year Fellowship, UCSC

1995-1997 Member of the Women of Color in Collaboration and Conflict

1995 Marilyn C. Davis Memorial Scholarship, UCSC

1993-1995 Patricia Robert Harris Graduate Fellowship, UCSC

1992 Research Careers in the Physical Sciences for Minority Scholars (fellowship), NSF/SDSU

1986 Monticello Scholarship. Caltech - Institute of Astronomy, University of Hawaii.

1984 Burton Green Scholarship, Caltech

#### PUBLICATIONS:

Holbrook, J.C. Under Consideration, Following the Stars: The Use of Celestial Bodies in Modern Navigation. Tucson: University of Arizona Press.

Holbrook, J.C. Submitted. "Celestial Navigators and Navigation Stories", *Culture and Cosmos*.

Holbrook, J. C. Submitted. "African Cultural Astronomy - Current Activities." *African Skies*.

Holbrook, J.C. Submitted. "Methods in African Cultural Astronomy." *Africa*

Holbrook, J. C. Submitted. "Astronomy Sites In Africa: Activities Within The UNESCO World Heritage Centre Thematic Initiative "Astronomy and World Heritage"." *International Journal of Cultural Properties*.

Holbrook, J. C. Accepted. "Lost in Digital Space: Black Scientists and Total Solar Eclipses." *Afrogeeks Anthology*. UC Santa Barbara

Holbrook, J.C. 2006, "Sun Gods and Moon Deities of Africa", Sky and Pshyche: The Relationship Between Cosmos and Consciousness, Edinburgh: Floris Books.

- Holbrook, Jarita C. 2006, "Bamana Wetenschap: Hemelse Puzzelstukjes", Landbouwkampioenen Ciwara-Maskers Uit Mali (West Afrika), Uitgeverij: Museum Dorstad, editor: Ester Kuhn.
- Holbrook, Jarita C. 2005, "A Woman Sitting on A Camel, Smiling." Beyond the Frame, New York: Palgrave.
- Holbrook, J.C. 2005, "Astronomy, Africa: Modern, Traditional, and Cultural," Appiah, A. and H. L. Gates (editors). Africana : the encyclopedia of the African and African American experience. Oxford; New York, Oxford University Press.
- Holbrook, Jarita 2003, "Astronomy," Peek, P. M. and K. Yankah (editors). African Folklore: An Encyclopedia. New York, Routledge.
- Holbrook, J. C. 2002, "The Naming of Celestial Objects in African Astronomy," *Africa Rising: A Journey Through Africana Studies column of the Louisiana Weekly*, Page 2, Sec. B. Part I, October 21-October 27, 2002. Part II, October 28 - November 3, 2002, Part II, November 4 - November 10, 2002.
- Holbrook, J. C. 2002, "Celestial Navigation and Technological Change on Moce Island," *Preprint Series #216*. Berlin: Max Planck Institute for the History of Science, 1-26.
- Holbrook, J. C. 2001, "African Calendars: An Examination of the Calendars of the Mursi of Ethiopia, the Batammaliba of Togo, and the Akan of Ghana," *National Society of Black Physicists Annual Day of Scientific Lectures*, 3.
- Holbrook, J. C. 1998, "African Astronomy," *Proceedings of the National Society of Black Physicists XXV Annual Day of Scientific Lectures*, 79-81.
- Holbrook, Jarita 1998, "Stellar Navigation of the Fishermen of the Kerkennah Islands," *Archaeoastronomy & Ethnoastronomy Newsletter*, 1.
- Holbrook, Jarita 1998, "African Astronomy," *Archeoastronomy & Ethnoastronomy Newsletter Online*. Baltimore: University of Maryland Press, 1-2.
- Holbrook, J. C., and P. Temi.1998, "An Analysis of the Infrared Reflection Nebula and Circumstellar Environment of GL 2136." *Astrophysical Journal* 496 (1998): 280 - 291.
- Schultz, A. S. B., Rank, D. M., Temi, P., & Holbrook, J. C. 1997, "Shocked molecular hydrogen in NGC 7129." IAU Symp. 182: Herbig-Haro Flows and the Birth of Stars. 39 - 41.
- Olkin, C. B., J. L. Elliot, H. B. Hammel, A. R. Cooray, S. W. McDonald, J. A. Foust, A. S. Bosh, M. W. Buie, R. L. Millis, L. H. Wasserman, E. W. Dunham,

L. A. Young, R. R. Howell, W. B. Hubbard, R. Hill, R. L. Marcialis, J. S. McDonald, D. M. Rank, J. C. Holbrook, and H. J. Reitsema. 1997 "The Thermal Structure of Triton's Atmosphere: Results from the 1993 and 1995 Occultations." *Icarus* 129: 178-201.

Holbrook, J.C., Temi, P., Rank, D., and Bregman, J. 1996 "An Infrared Study of the Juggler Nebula" in From Stardust to Planetesimals - Contributed Papers, M.E. Kress, A.G.G.M. Tielens, and Y.J. Pendleton, eds., NASA-CP# 3343, p.41,

Lindler, D., Heap, S., Holbrook, J., Malumuth, E., Norman, D., and Vener-Saavedra, P. 1994, "Star Detection, Astrometry, and Photometry of Restored PC Images" The Restoration of HST Images and Spectra - II, STSci, Baltimore, 286-295.

Holbrook, J., Heap, S., Malumuth, E., Shore, S., & Waller, B. 1994 "HST Imagery of the Starburst Nucleus of M83." Mass-Transfer Induced Activity in Galaxies, 1994, pp. 109-110.

GRANTS & CONTRACTS: In Applied Anthropology we list the amounts.

04/06 \$600

Faculty International Travel Award, University of Arizona. For travel to the UK to begin setting up a summer field school.

03/06 \$900

Faculty International Travel Award, University of Arizona. For travel to the Ghana Eclipse Conference, Cape Coast, Ghana, and SEAC, Rhodes, Greece.

01/06 Ghana Eclipse Conference Support:

\$2000 - Steward Observatory for supporting travel and lodging of African Speakers.

\$2000 – College of Optical Science towards the Eclipse Simulcast, and the Travel and Lodging of Speaker Clive Ruggles.

\$2500 – Magellan Circle Foundation, towards the travel of five University of Arizona Undergraduate Students.

\$2500 – College of Science, towards the travel of five University of Arizona Undergraduate Students.

\$2500 – College of Education, towards the travel of three University of Arizona Graduate Students.

\$3000 – Pima Federal Credit Union. Towards the travel of Pima Community College Student Veena Monihar, and the registration of three African speakers.

2000 Eclipse Viewing Glasses from the National Aeronautics and Space Administration (NASA) Sun-Earth Connection.

06/05 \$600

Faculty International Travel Award, University of Arizona. For travel to Sky and Psyche Conference, Bath, United Kingdom

10/2/04 – 10/14/04 \$4701

#1166 Anthropology, University of Nigeria. Fulbright Senior Specialist Grant

7/1/04 - 6/30/05 \$9558

“US-Africa Planning Visit: Collaborations in Cultural Astronomy” National Science Foundation. Office of International Science and Engineering. Planning & Workshops, Science and Technology Studies. Co-PI: Charles Brown, National Society of Black Physicists.

12/12/03 \$200.00.

“Intern Dinner and Recruitment,” Diversity Interaction Grant. University of Arizona. Co PI. Collaborators: Alex Wright, African American Student Affairs (AASA).

12/18/02 \$200.00.

“Faculty Student Interaction Grant,” Honors College. University of Arizona. Co PI. Collaborators: AASA, D. Austen.

8/1/02 - 6/30/05, \$35,000.00.

“Indigenous Knowledge, Africa, and the Stars,” Arizona State Funds. Principal Investigator.

8/1/02 - 8/31/04 0233967, \$25,000.00.

“Indigenous Knowledge, Africa, and the Stars,” National Science Foundation. Social, Behavioral, and Economic Sciences. Science and Technology Studies. Principal Investigator.

8/1/02 - 8/1/04 210139, \$15,000.00.

“Indigenous Knowledge, Africa, and the Stars,” Vice President of Research Funds. University of Arizona. University of Arizona grant. Principal Investigator.

10/1/00 - 9/30/01 00003234, \$50,000.00.

“Multi-Site Ethnoastronomical Investigation of African Stellar Navigators and Their Communities,” National Science Foundation: Social and Economic Sciences. Science and Technology Studies. Principal Investigator.

10/1/98 - 10/1/01 98006529, \$80,000.00.

“African Stellar Navigators and Their Communities,” National Science Foundation. Social, Behavioral, and Economic Sciences. Science and Technology Studies. Principal Investigator.

TALKS (1997 – 2006):

2/10/2007 “Africans and Astronomy”, The Science Factory and Lane Community College, Eugene, Oregon. APS grant for travel. Planetarium Show.

2/6/2007 "Simunye: We are One", Panelist, African American Student Affairs, University of Arizona.

11/16/2006 "Sailors of the Kerkennah Islands, Tunisia", African Studies Association annual meeting, San Francisco, CA.

10/27/2006 "Networking", AZ Women in Higher Education – Southern Arizona Conference

10/12/2006 UA Museum of Art panel, "Techno-Genesis: Innovation Under the Influence."

05/16/2006 Astronomy and Culture lecture, Mr. Scott's Kindergarten Class, Fruchtlender Elementary School, Tucson, AZ

05/11/2006 "The Cultural Astronomy of Africans: The Past, Present and Future," Academy Village, Tucson, AZ.

04/08/2006 "The Ghana Eclipse Conference." European Society for the Astronomy and Culture (SEAC), Rhodes, Greece.

03/27/2006 "Overview of the History of African Cultural Astronomy Research" Keynote Speaker, the Ghana Eclipse Conference, University of Cape Coast, Ghana.

11/08/2005 "African Cultural Astronomy – Current Activities." Keynote Speaker. African Astronomical History Symposium, South African Astronomical Observatory, South Africa.

11/04/2005 "African Cultural Astronomy: Definitions and Methods." Department of Physics, Morehouse College, Atlanta, GA.

07/01/2005 "Sun Gods and Moon Deities of Africa". Sky and Psyche, Bath Spa University. United Kingdom.

05/21/2005 "Cultural Astronomy, Black Physicists, and Total Solar Eclipses." Afrogeeks: Global Blackness and the Digital Public Sphere. University of California, Santa Barbara.

04/06/2005 "World Heritage List Expansion to Include Astronomy Sites in Africa", Society for Applied Anthropology, Santa Fe, New Mexico.

03/03/2005 "The African Cultural Astronomy Conference for the 2006 Eclipse," College of Science, University of Cape Coast, Ghana.

02/18/2005 "Where are the black scientist in science fiction and futuristic films?" and "The African Cultural Astronomy Workshop for the 2006 Eclipse", Annual Meeting of the National Society of Black Physicists, Orlando.

01/22/05 Employment Roundtable, Delta Academy, MLK Center, University of Arizona

12/02/04 "Current Projects in African Cultural Astronomy," Astronomy and Education group, Steward Observatory. University of Arizona

10/14/04 "Introduction to African Cultural Astronomy," Centre for Basic Research in the Space Sciences, University of Nigeria, Nsukka.

9/15/04 ""The Cultural Astronomy of the Bamana of Mali," Anthropology Dept, University of Arizona.

9/11/04 "African Cultural Astronomy: Where Anthropology and Astronomy Meet," Elementary Institute of Science, San Diego, CA.

6/23/04 "The Cultural Astronomy of the Ciwara Society of the Bamana People of Mali," Oxford 7 Conference in Archaeoastronomy: Bridging Astronomy and Anthropology, Flagstaff, AZ.

6/4/04 "Cultural Astronomy of Africa," Harvard Smithsonian Center for Astrophysics, <http://cfa-www.harvard.edu/colloquia/spring04/holbrook.html>.

2/11/04 Invited lecturer on methods of doing oral histories for HIST 396A Nature + Practice of History, H. Gelfand instructor. University of Arizona.

9/4/03 "Adventures in African Astronomy and Culture," Astronomy Department, New Mexico State University, Las Cruces, NM.

7/23/03 "Introduction to African Cultural Astronomy," International Astronomical Union, Darling Harbor Convention Center, Sydney, Australia.

3/21/03 "Weatherlore," Society of Applied Anthropology, Portland, Oregon.

2/26/03 "African American Professors at the University of Arizona," Librarians and I organized a panel of four African American professors at the UA to discuss issues as part of the Black History Month Celebrations, Special Collections University of Arizona Main Library.

2/13/03 "Anthropology of Science," National Society of Black Physicist, Atlanta, GA.

04/27/2002 "Cultural Astronomy of Morocco", Center for Middle Eastern Studies, University of Arizona.

04/12/2002 "Modern Navigation and the Navigators: Theory versus Practice." Princeton Workshop in the History of Science, 2001-2002: Diasporas of Knowledge: The Migrations of Science among Elite and Vernacular Communities: Part III The Scientific Laity.

02/05/2002 "Navigation by the Stars in Three Communities." Institut fur Ethnologie, Universitat Heidelberg, Germany.

09/18/2001 "From Astrophysics to African Astronomy" Professional Development Series, African American Student Affairs, University of Arizona, Tucson

09/17/2001 "My career path" Guest Lecturer for AFAS 306: African American Autobiographies: Women and their Histories, C. Simms, University of Arizona, Tucson.

09/03/2001 Session 13.3 Safe Transport: By Road, Sea and Sky (Theme: Technology Studies), "Progress, Navigation, and the Ideal Mariner" Society for the Social Studies of Science, Annual Meeting.

08/29/2001 "Anthropological Methods for Celestial Navigation", Guest Lecturer for ANTH 498: Senior Capstone, University of Arizona, Tucson

04/12/2001 "Celestial Navigation, Shalfia, and the Blind Fisherman", Center for Middle East Studies, University of Arizona, Tucson

03/30/2001 "Topics in African Astronomy: African Calendars" National Society of Black Physicists, Annual Meeting, Stanford University, Palo Alto, CA.

03/16/2001 Keynote Speaker: "Topics in African Astronomy: Celestial Navigation" "Expand Your Horizon Mini-Conference for Young Women in Science, Mathematics and Technology, Princeton Plasma Physics Laboratory, Princeton, NJ

03/12/2001 "African Astronomy for K-5." Wright Elementary School, Tucson, Arizona

03/07/2001 "African Astronomy." Africana Studies, University of Arizona, Tucson

01/29/2001 "Celestial Navigation and Technological Change." Center for the Cultural Studies of Science, Technology, and Medicine. History Dept. UCLA.  
10/02/2000 "Celestial Navigation: A Status Report", Dept of Seamanship and Navigation, United States Naval Academy, Annapolis, MD

09/28/2000 "Introduction to My Celestial Navigation Research", for Prof. Traweek's class "Social Knowledge and Social Power", History Dept., UCLA. Center for the Cultural Studies of Science, Technology, and Medicine, UCLA

10/29/1999 "Technology and Navigation Practices in Fiji, Tunisia, and the US." Society for the Social Studies of Science, Annual Meeting.

09/30/1998 "Cultural Astronomy of Fiji and Tunisia", Alana Cultural Center, Colgate University, Hamilton, NY

09/18/1998 "Techniques in Cultural Astronomy," Physics & Astronomy Department, Colgate University, Hamilton, NY.

03/06/1998 "African Astronomy", National Society of Black Physicists, University of Kentucky, Lexington, KY

02/07/1998 "Overview of My Research in Astronomy & Cultural Astronomy", Team Experience in Astronomy for Minorities - II, Western Kentucky University, Bowling Green, KY

02/05/1998 "African Astronomy", African American Studies, Western Kentucky University, Bowling Green, KY

10/17/1997 "Overview of My Career in Astronomy", NASA Team Experience in Astronomy for Minorities - II, Western Kentucky University, Bowling Green, KY

### ***Panels Organized:***

February 17, 2006

#### **NSBP International Activities**

**8 speakers. Annual Meeting, National Society of Black Physicists and National Society of Hispanic Physicists, San Jose, CA.**

November 17, 2001

#### **(IX-N1) History of Science, Technology, and Medicine of Africa: Workshop towards Creating a Syllabus**

African Studies Association, Annual Meeting

Chair & Panel Organizer: Jarita Holbrook, UCLA

Mary Dillard, Sarah Lawrence College, *History of Intelligence Testing in Africa*

Karen Flint, University of North Carolina-Charlotte, *History of Medicine of Africa*

Martha Morgan, University of Arizona, *Metallurgy of Africa*

Jarita Holbrook, UCLA, *Astronomy of Africa*

October 15, 1998,

#### **14. Technoscience and African Identity**

J. Holbrook (Panel Organizer), Colgate University. "African Calendars and the Ownership of Knowledge"

M. Mahoney, UCLA “Cosmologies, Craft Knowledge, And Colonialism: Towards An African History Of Technoscience”

S. Shea, UCLA “Reflections on Technologies and African Historical Agency”  
Society for the History of Technology, Annual Meeting.

Commentator: David Schoenbrum, University of Georgia