

**Chrystal A. S. Smith**  
Department of Anthropology  
University of Connecticut  
354 Mansfield Road  
Storrs, Connecticut 06269  
(860) 486-2811 (Work)  
chrystal.smith@uconn.edu

## EDUCATION

- 2009           **Ph.D.**, Applied Anthropology, University of South Florida, Tampa
- 2003           **M.P.H.**, Epidemiology, University of South Florida, Tampa
- 1998           **M.A.A.**, Applied Anthropology, University of Maryland, College Park
- 1991           **B.A.**, Anthropology, Howard University, Washington DC

## FIELDS OF SPECIALIZATION

Underrepresentation of Women and Minorities in STEM Undergraduate Education; Isolation and Underrepresentation of STEM Women and Minority Faculty; Impact of STEM Program Culture and Social Networks on LGBTQIA Undergraduates; Ethnography and Qualitative Research Methods; Critical Medical Anthropology; Epidemiology; Mixed-Methods Research

## EMPLOYMENT

- 2016-present   **Assistant Professor in Residence**  
*Department of Anthropology, University of Connecticut*
- 2017-present   **Courtesy Faculty**  
*Department of Anthropology, University of Connecticut*
- 2014-2017      **Assistant Research Professor**  
*Department of Anthropology, University of South Florida*
- 2010-2014      **Postdoctoral Scholar**  
*Departments of Anthropology and Sociology, University of South Florida*  
Coordinated National Science Foundation mixed-methods research grants, *Alliance for the Advancement of Florida's Academic Women in Chemistry and Engineering* (#0930164) and *Successful Academic and Employment Pathways in Advanced Technologies* (#1104214) along with the Spencer Foundation Award, *Dual Enrollment: Who is Served and Who Benefits?* (#200900083) and the University of South Florida New Researcher Grant, *Exploring the Cultural Beliefs about Type 2 Diabetes Management and Financial Barriers to Diabetes Care among Latino Farm Workers*. Collaborated with interdisciplinary teams and stakeholders to design and implement grant activities and write grant proposals. Led qualitative research teams in designing interview/focus group protocols, conducting interviews and focus groups, and the analysis of qualitative data. Assisted

quantitative research team in designing, administering and analyzing surveys. Supervised the research teams in the field. Analyzed qualitative data. Mentored, supervised, and trained graduate students in qualitative methods and fieldwork techniques. Authored scholarly articles and book chapters for publication. Presented papers and posters at professional conferences.

2005-2009

**Graduate Research Assistant**

*Department of Anthropology, University of South Florida*

Managed NSF and other funded projects. Conducted qualitative research on STEM education and education policy/evaluation. Collaborated with interdisciplinary teams to develop mixed-methods research projects and write grant proposals. Coordinated a mixed-method evaluation study. Designed interview, focus group, observation, and survey instrumentation. Mentored, trained, and supervised undergraduate students. Supervised research team in the field. Analyzed qualitative and quantitative data. Authored annual evaluation report and book chapter. Presented papers and posters at professional conferences.

2001-2005

**Graduate Research Assistant**

*Center for Urban Transportation Research, University of South Florida*

Conducted anthropological research on the impact of housing and transportation policies on the social conditions and health status of the disabled, women, and low-income and ethnic minority communities. Coded and analyzed survey data. Co-authored federal annual reports. Presented at professional conferences

1998-1999

**Public Health Analyst**

*Breast and Cervical Cancer Early Detection Program (DC BCCEDP),  
District of Columbia Department of Health, Washington DC*

Coordinated a U.S. Centers for Disease Control free breast and cervical cancer screening program for low income women with limited or no health insurance. Consulted with administrators and practitioners at partner hospitals and clinics to improve program implementation. Developed promotional materials. Engaged in community-based outreach and recruitment.

1997

**Graduate Research Assistant**

*Johns Hopkins Bloomberg School of Public Health, Baltimore, MD*

Conducted qualitative research (semi-structured interviews) on the parenting, decision-making, and social-problem solving skills of urban, low income, African American adolescent mothers and their mothers who share households.

1996

**Research Intern/Ethnographer**

*Center of Minority Health Research, University of Maryland, Baltimore, MD*

Conducted qualitative research (semi-structured interviews and participant observation) on the friendships and play/social interactions of African American children.

## RESEARCH ACTIVITIES

- 2017-2019     **Principal Investigator**  
*EAGER: Measuring the Effects of Academic Climate and Social Networks on Persistence of STEM Undergraduates*  
National Science Foundation grant #1747580
- 2014-2018     **Co-Principal Investigator/Qualitative Lead/Project Manager**  
*The Effects of Social Capital and Cultural Models on the Retention and Degree Attainment of Women and Minority Engineering Undergraduates*  
National Science Foundation grant #1432297
- 2016-2019     **Qualitative Lead**  
*The IT College and CAREERS Readiness Project: Career Academy Research on Educational Experiences and Related Successes*  
National Science Foundation grant #1614707
- 2015-2018     **Qualitative Lead**  
*PathTech LIFE: Constructing a National Survey of Engineering Technology Students through Regional and Statewide Testing*  
National Science Foundation grant #1501999
- 2016-           **Lead Researcher**  
*University of South Florida Morsani College of Medicine, Office of Faculty and Academic Affairs*

## COMPLETED RESEARCH ACTIVITIES

- 2011-2015     **Project Manager/Qualitative Researcher**  
*Successful Academic and Employment Pathways in Advanced Technologies (PathTech)*  
National Science Foundation ATE #1104214 (\$1,196,790)  
PI: William Tyson, Ph.D., Associate Professor, Sociology,  
University of South Florida
- 2012-2014     **Co-Principal Investigator**  
*Exploring the Cultural Beliefs about Type 2 Diabetes Management and Financial Barriers to Diabetes Care among Latino Farm Workers*  
University of South Florida New Researcher Grant (\$19,547)  
PI: Dinorah Martinez-Tyson, Ph.D., Assistant Professor, Community and Family Health, University of South Florida
- 2009-2013     **Project Manager/Qualitative Lead**  
*Alliance for the Advancement of Florida's Academic Women in Chemistry and Engineering*  
National Science Foundation ADVANCE-PAID #0930164 (\$1,300,000)  
PI: Sylvia W. Thomas, Ph.D. Associate Professor, Electrical Engineering,  
University of South Florida

- 2008-2012     **Qualitative Lead/Program Manager**  
*Dual Enrollment: Who is Served and Who Benefits?*  
Spencer Foundation Award #200900083 (\$156,000)  
PI: Kathryn M. Borman, Ph.D. (Retired), Professor, Anthropology,  
University of South Florida
- 2005-2010     **Lead External Evaluator/Qualitative Researcher**  
*Evaluation of Center for Inquiry Science Teaching and Learning*  
National Science Foundation #0227619 (\$100,000)  
PI: Kathryn M. Borman, Ph.D. (Retired), Professor, Anthropology,  
University of South Florida
- 2005-2008     **Qualitative Researcher**  
*Effects of College Degree Program Culture on Female and Minority Student Science, Technology,  
Engineering, and Mathematics (STEP)*  
National Science Foundation #0525408 (\$1,328,311)  
PI: Kathryn M. Borman, Ph.D. (Retired), Professor, Anthropology,  
University of South Florida

#### **PUBLICATIONS - PEER REVIEWED JOURNALS**

- 2015           Hesborn O. Wao, Reginald S. Lee, Joel Ochieng, Georiadis Owuor Odondi, Emily Akoth Tenge, and **Chrystal A. S. Smith**. Predicting Degree Attainment in Engineering and Biological/Life Sciences: An Exploratory Study. *Journal of Women and Minorities in Science and Engineering* 21(4):347-362.
- 2012           **Smith, Chrystal A. S.** Living with Sugar: Influence of Cultural Beliefs on Type 2 Diabetes Self-Management of English-Speaking Afro-Caribbean Women. *Journal of Immigrant and Minority Health* 14(4):640-647.
- 2005           **Smith, Chrystal A. S.,** & Barnett, Elizabeth. Diabetes-related Mortality Among Mexican Americans, Puerto Ricans, and Cuban Americans in the United States. *Rev Panam Salud Publica/Pan Am J Public Health* 18(6):381-387.

#### **PUBLICATIONS – CONFERENCE PROCEEDINGS**

- 2015           **Smith, Chrystal A. S.,** Wao, Hesborn, Martin, Julie P., MacDonald, George, Lee, Reginald, & Kersaint, Gladis. Designing a Survey for Engineering Undergraduates using Free Listing - An Anthropological Structured Technique. Proceedings of the 122nd American Society for Engineering Education Annual Conference and Exposition, Seattle, WA.

#### **PUBLICATIONS - BOOK CHAPTERS**

- 2017           **Smith, Chrystal A. S.** Community Colleges as a Pathway for Low-Income Women to Enter the Engineering Technology Workforce. In S.N. Davis, S. Winslow, & D. J. Maume (Eds), *Gender in the Twenty-First Century: The Stalled Revolution and the Road to Equality*. University of California Press.

- 2014 **Smith, Chrystal A. S.** Assessing Academic Women’s Sense of Isolation in the STEM Disciplines (peer reviewed). In P. J. Gilmer, B. Tansel, & M. Hughes Miller (Eds.), *Alliances for Advancing Academic Women: Guidelines for Collaboration in STEM fields* (pp 97-113). Rotterdam: Sense Publishers.
- 2014 **Smith, Chrystal A. S.,** & Thomas, Sylvia. Learning Through Collaboration: Lessons from AAFAWCE, a NSF ADVANCE-PAID Grant (peer reviewed). In P. J. Gilmer, B. Tansel, & M. Hughes Miller (Eds.), *Alliances for advancing academic women: Guidelines for collaboration in STEM fields* (pp. 193-204 ). Rotterdam: Sense Publishers.
- 2010 Tyson, William, **Smith, Chrystal A. S.,** & Nguema Ndong, Arland. To Stay or to Switch? Why Students Leave Engineering Programs. In K. M. Borman, W. Tyson, & R. H. Halperin (Eds.), *Becoming an Engineer in Public Universities* (pp. 53-80). New York: Palgrave Macmillan.

#### **PUBLICATIONS - SELECTED REPORTS**

- 2011 Estacion, Angela, Cotner, Bridget A., D’Souza, Stephanie, **Smith, Chrystal A. S.,** & Borman, Kathryn M. Who Enrolls in Dual Enrollment and Other Acceleration Programs in Florida High Schools? (Issues & Answers Report, REL 2012–No. 119). Washington, DC: U.S. Department of Education, Institute of Education Sciences, National Center for Education Evaluation and Regional Assistance, Regional Educational Laboratory Southeast.

#### **PRESENTATIONS – PAPERS**

- 2015 **Smith, Chrystal A. S.,** Wao, Hesborn, Martin, Julie P., MacDonald, George, Lee, Reginald, & Kersaint, Gladis. Using Cultural Model and Social Capital Theories to Guide Research on the Retention and Degree Attainment of Women and Minority Engineering Undergraduates. 114<sup>th</sup> American Anthropological Association Annual Meeting, Colorado, Denver.
- 2015 **Smith, Chrystal A. S.,** Wao, Hesborn, Martin, Julie P., MacDonald, George, Lee, Reginald, & Kersaint, Gladis. Designing a Survey for Engineering Undergraduates using Free Listing - An Anthropological Structured Technique. 122nd American Society for Engineering Education Annual Conference and Exposition, Seattle, WA.
- 2014 **Smith, Chrystal A. S.** Women Forging Ahead in Traditionally Male Dominated Engineering Technology Fields. 72th Annual Meeting, Society for Applied Anthropology, Albuquerque, NM.
- 2013 **Smith, Chrystal A. S.,** & Lovett, Marilyn D. When and Where I Enter: Dr. Aaronette White’s Global Concern for International Women’s Issues. Association for Women in Psychology Annual Meeting, Salt Lake City, Utah.
- 2012 **Smith, Chrystal A. S.,** Wilson, Tasha-Neisha, & Borman, Kathryn M. Dual Enrollment in Florida. 72th Annual Meeting, Society for Applied Anthropology, Baltimore, MD.

- 2011 **Smith, Chrystal A. S.**, Borman, Kathryn M., Gilmer, Penny J., Donnelly, Anne, Tansel, Berrin, Hruda-Peterson, Simone, & Thomas, Sylvia W. Challenges of Implementing Recruitment Practices and Mentorship Programs to Support Chemistry and Engineering Women Faculty. 71th Annual Meeting, Society for Applied Anthropology Annual Meeting, Seattle, WA.
- 2010 **Smith, Chrystal A. S.**, Spalding, Ashley, Eden, Aimee, Nguema Ndong, Arland, Wilson, Tasha-Neisha, Heppner, Rebekah, & Borman, Kathryn M. Factors that Influence Student Decision-making in Accelerated Programs. 109th Annual Meeting, American Anthropological Association, New Orleans, LA.
- 2009 **Smith, Chrystal A. S.** Living with Sugar: Socioeconomic Status and Cultural Beliefs about Type 2 Diabetes among Afro-Caribbean Women. 108th Annual Meeting, American Anthropological Association, Philadelphia, PA.
- 2009 **Smith, Chrystal A. S.**, Borman, Kathryn M., Lee, Reginald S., & Cotner, Bridget A. Evaluation of the Science Education Professional Development Activities of a National Science Foundation Center for Learning and Teaching: A Mixed Methods Approach. 55<sup>th</sup> Annual Meeting, Florida Educational Research Association, Orlando, FL.
- 2008 **Smith, Chrystal A. S.**, Borman, Kathryn M., Forde, Susan C., Cotner, Bridget A. Miller, Jason E., Nguema Ndong, Arland, & Workman Whaler, Cassandra L. Organizational Culture in Higher Education: Mixed Methods and Interdisciplinary Inquiry. 107th Annual Meeting, American Anthropology Association, San Francisco, CA.
- 2007 **Smith, Chrystal A. S.** Health and the English-Speaking Caribbean. 67th Annual Meeting, Society for Applied Anthropology Annual Meeting, Tampa, FL.
- 2007 **Smith, Chrystal A. S.**, O'Connor, Danielle, Puccia, Ellen, & Trevor Purcell. Cultural Knowledge and Small Business Success: West Indian Small Businesses in Tampa, FL. 67th Annual Meeting, Society for Applied Anthropology Annual Meeting, Tampa, FL.
- 2005 **Smith, Chrystal A. S.** Diabetes-Related Mortality Among Mexican Americans, Puerto Ricans, and Cubans in the United States. 66th Annual Meeting, Society for Applied Anthropology Annual Meeting, Santa Fe, NM.
- 2003 **Smith, Chrystal A. S.**, & Ward, Beverly. The Greening of Agencies: Impact Assessment Resurges in Public Transportation. 65th Annual Meeting, Society for Applied Anthropology Annual Meeting, Portland, OR.
- 2001 **Smith, Chrystal A. S.** The Caribbean and the Epidemiological Transition. 64th Annual Meeting, Society for Applied Anthropology Annual Meeting, Atlanta, GA.

**PRESENTATIONS - POSTERS**

- 2017 Kersaint, G., **Smith, Chrystal A. S.**, MacDonald, G., Lee, R., Wao, H., Skvoretz, J., Reeves, K., Martin, J., Campbell, R., Puccia, E., Ware, J. The Effects of Social Capital and Cultural Models on the Retention and Degree Attainment of Women and Minority Engineering Undergraduates. NSF ECR PI Meeting, Alexandria, VA.
- 2016 Kersaint, G., **Smith, Chrystal A. S.**, Wao, H., MacDonald, G., Lee, R., Skvoretz, J., Reeves, K., Martin, J., Campbell, R., Puccia, E., Ware, J. Inclusion and Equity of Engineering Diversities: Social Capital, Cultural Models, and Success of Women and Minority Engineering Undergraduates. Southern Sociological Society Annual Meeting, Washington, D.C.
- 2015 Lynch, Catherine & **Smith, Chrystal A. S.** Women's Health Collaborative: Promoting the Retention and Advancement of Women Faculty at the University of South Florida Morsani College of Medicine. Learn Serve Lead, the Association of American Medical Colleges Annual Meeting, Baltimore, Maryland.
- 2014 Brickhouse Arriola, Nora, Medina-Ramirez, Patricia, **Smith, Chrystal A. S.**, & Martinez Tyson, Dinorah. Hay que echarle ganas y controlar a como dé lugar: Type 2 Diabetes in a Mexican Farmworker Community. 72th Annual Meeting, Society for Applied Anthropology, Albuquerque, NM.
- 2014 Medina-Ramirez, Patricia, Brickhouse Arriola, Nora, **Smith, Chrystal A. S.**, & Martinez Tyson, Dinorah. Exploring Type 2 Diabetes Management Beliefs and Practices in a Mexican Farmworker Community. 24<sup>th</sup> Annual USF Health Research Day, Tampa, FL.
- 2011 **Smith, Chrystal A. S.**, Wilson, Tasha-Neisha, & Borman, Kathryn. Dual Enrollment in Florida. 110th Annual Meeting, American Anthropological Association, Montreal, Canada.
- 2010 Borman, Kathryn M., **Smith, Chrystal A. S.**, Gilmer, Penny J., Donnelly, Anne, Tansel, Berrin, Hruda-Peterson, Simone, & Thomas, Sylvia. Alliance for the Advancement of Florida's Academic Women in Chemistry and Engineering (AAFAWCE) ADVANCE-PAID. National Science Foundation 2010 Joint Annual Meeting, Washington, DC.
- 2008 **Smith, Chrystal A. S.**, Borman, Kathryn M., & Cotner, Bridget A. Building Capacity in Science: Evaluation of a Science Inquiry Center. 22nd Annual Conference, American Evaluation Association. Denver, CO.
- 2007 **Smith, Chrystal A. S.**, Borman, Kathryn M., Lee, Reginald S., & Cotner, Bridget A. Using Anthropological Approaches to Evaluate a National Science Foundation Center for Learning and Teaching. 67th Annual Meeting, Society for Applied Anthropology, Tampa, FL.

**INVITED PRESENTATIONS AND SESSIONS**

- 2014 How to Become an Effective Mentor to STEM Undergraduate Researchers  
Engineering Research Mentor Training Seminar, Department of Civil &  
Environmental Engineering, University of South Florida, Tampa, FL.
- 2013 Strategies to Improve Mentorship of STEM Undergraduate Researchers  
Mentoring Novice Researchers, Department of Civil & Environmental Engineering,  
University of South Florida, Tampa, FL.
- 2012 **Smith, Chrystal A. S.**, Gilmer, Penny J., & Donnelly, Anne. Isolation and STEM  
Women Faculty. National Science Foundation Joint Annual Meeting, Washington  
DC.
- 2011 Discussant: Critical Review of Master's Theses of Medical Anthropology Students  
Graduate Research Colloquium, Department of Anthropology, University of South  
Florida, Tampa, FL.
- 2007 Research Opportunities for Minority Graduate Students in Anthropology  
Network of Minority Research Investigators (NMRI). Annual South Region  
Conference, Atlanta, GA.

## TEACHING INTERESTS

Cultural Anthropology; Anthropological Perspectives on Women's Global Health; Qualitative  
Research Methods; Gender and Ethnicity in STEM Higher Education; Political Economy and  
Culture in STEM Higher Education

## TEACHING EXPERIENCE

- 2016-present **Assistant Professor in Residence**  
*Department of Anthropology, University of Connecticut*  
Other People's Worlds  
Anthropological Perspectives on Women's Global Health
- Spring 2013 **Adjunct Instructor**  
*College of Public Health, University of South Florida*  
Women's Health: A Public Health Perspective  
Critical Issues in Public Health
- Fall 2012 **Adjunct Instructor**  
*College of Public Health, University of South Florida*  
Women's Health: A Public Health Perspective  
Critical Issues in Public Health
- 2005-2006 **Graduate Teaching Assistant**  
*Department of Anthropology, University of South Florida*  
Quantitative Research Methods for Applied Anthropology (doctoral level)  
Quantitative Research Methods for Applied Anthropology (master's level)



1999-2001     **Graduate Teaching Assistant**  
*Department of Anthropology, University of South Florida*  
 Introduction to Anthropology (Primary instructor 2000-2001)

1995-1996     **Graduate Teaching Assistant**  
*Department of Anthropology, University of Maryland, College Park*  
 Human Biodiversity  
 Introduction to Biological Anthropology  
 Introduction to Sociocultural Anthropology (Primary instructor)

**MENTORING/STUDENT SUPERVISION**

2015-present	Rebecca Campbell	Graduate/Ph.D.	Anthropology
2015-present	Simone Brookins	Graduate/Ph.D.	Education
2015	Gabriela Romero	Graduate/Masters	Medical Sciences
2013-present	Nora Brickhouse Arriola	Graduate/Masters	Anthropology
2012-present	Patricia Medina-Ramirez	Graduate/Masters	Epidemiology
2012-2014	Pangri Mehta	Graduate/Ph.D.	Sociology
2012-2014	David Zeller	Graduate/Masters	Sociology
2009-2013	Vanessa Martinez	Graduate/Masters	Anthropology
2005-2007	Tasha-Neisha Wilson	Undergraduate	Sociology

**HONORS AND AWARDS**

- 2007           Alliance for Applied Research in Education and Anthropology (AAREA)  
 Research Achievement Award (\$500)  
 Department of Anthropology, University of South Florida
  
- 2007           National Institute of Diabetes and Digestive and Kidney Diseases  
 Network of Minority Research Investigators (\$500)  
 Annual South Region Conference, Atlanta, GA
  
- 2005           Student Honorary Award for Research and Practice (\$500)  
 College of Public Health, University of South Florida
  
- 2001           Student Honorary Award for Research and Practice (\$500)  
 College of Public Health, University of South Florida
  
- 1997           Committee on Africa and the Americas (\$1000)  
 University of Maryland, College Park
  
- 1991           Merit Scholarship (\$1000), Howard University, DC

**PROFESSIONAL SERVICE**

- 2011-present   Reviewer, Journal of Immigrant and Minority Health
- 2015           Member, Women’s Health Collaborative Advisory Committee, University of South  
 Florida Morsani College of Medicine

2015           Reviewer, National Science Foundation  
2012           Reviewer, National Institutes of Health  
  
2008           Reviewer, Journal of the American College of Nutrition

**PROFESSIONAL AFFILIATIONS**

American Anthropological Association

## REFERENCES

### **Gladis Kersaint, Ph.D.**

Dean  
Neag School of Education  
University of Connecticut  
Charles B. Gentry Bldg  
249 Glenbrook Rd #3064  
Storrs, CT 06269  
Phone: 860-486-3815  
E-mail: [Kersaint@uconn.edu](mailto:Kersaint@uconn.edu)

### **Michelle Hughes Miller, Ph.D.**

Associate Professor  
Department of Women's and Gender Studies  
University of South Florida  
4202 East Fowler Ave, CMC 202  
Tampa, FL 33620-7200  
Phone: (813) 974-0982  
E-mail: [hughesmiller@usf.edu](mailto:hughesmiller@usf.edu)

### **Lorena Madrigal, Ph.D.**

Professor  
Department of Anthropology  
University of South Florida  
4202 East Fowler Ave, SOC 143  
Tampa, FL 33620-7200  
Phone: (813) 974-2138  
E-mail: [madrigal@usf.edu](mailto:madrigal@usf.edu)