

Chrystal A. S. Smith
Department of Anthropology
University of Connecticut
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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

EMPLOYMENT

- 2016-present **Assistant Professor in Residence**
Department of Anthropology, University of Connecticut
- 2017-present **Courtesy Faculty**
Department of Anthropology, University of South Florida
- 2014-2016 **Assistant Research Professor**
Department of Anthropology, University of South Florida
- 2010-2014 **Postdoctoral Scholar**
Departments of Anthropology and Sociology, University of South Florida
- 2001-2009 **Graduate Research Assistant**
Department of Anthropology, University of South Florida
- 1998-1999 **Public Health Analyst**
*Breast and Cervical Cancer Early Detection Program (DC BCCEDP),
District of Columbia Department of Health, Washington DC*
- 1997 **Graduate Research Assistant**
Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland
- 1995-1996 **Graduate Teaching Assistant**
University of Maryland, College Park, Maryland

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 LGBTQPIA+ Undergraduates; Ethnography and Qualitative Research Methods; Critical Medical Anthropology; Epidemiology; Mixed-Methods Research and Evaluation

CURRENT RESEARCH ACTIVITIES

- 2017-2020 **Principal Investigator**
EAGER: Measuring the Effects of Academic Climate and Social Networks on Persistence of STEM Undergraduates
National Science Foundation grant #1747580 (\$299,999)
- 2014-2020 **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 (\$1,499,982)
- 2017-2021 **External Evaluator**
NRT-INFEWS: Systems Training for Research on Geography-based Coastal Food Energy Water Systems (STRONG-CFEWS)
National Science Foundation grant #1735320 (\$160,000)
- 2014-present **Lead Researcher**
Office of Faculty and Academic Affairs
University of South Florida Morsani College of Medicine annual contract (\$9,400)

COMPLETED RESEARCH ACTIVITIES

- 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 (\$67,200)
- 2015-2018 **Qualitative Lead**
PathTech LIFE: Constructing a National Survey of Engineering Technology Students through Regional and Statewide Testing
National Science Foundation grant #1501999 (\$778,000)
- 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

- 2019 Fletcher Jr., Edward C., Hernandez-Gantes, Victor, & **Smith, Chrystal A. S.** This is my neighborhood: An exploration of culturally relevant agency to support high school Latina(o) students in an urban career academy. *The Qualitative Report*. [In Press]
- 2019 Skvoretz, John, Kersaint, Gladis, Campbell-Montalvo, Rebecca, Ware, Jonathan D., **Smith, Chrystal A. S.**, Puccia, Ellen, Martin, Julie P., Lee, MacDonald, George & Wao, Hesborn. Pursuing an Engineering Major: Social Capital of Women and Underrepresented Minorities. *Studies in Higher Education*
<https://doi.org/10.1080/03075079.2019.1609923>

- 2015 Wao, Hesborn O., Lee, Reginald S., Ochieng, Joel, Owuor Odondi, Georiadis, Akoth Tenge, Emily, & **Smith, Chrystal A. S.** 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 - 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 - 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 – TECHNICAL 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 & POSTERS

- 2019 Campbell-Montalvo, **Smith, Chrystal A. S.**, M. Hughes Miller, M. Mayberry, and H. Wao. Navigating Undergraduate STEM Spaces as LGTBQIA+: The Use of Micro-Defenses to Fit In. Poster presented at the Society for Applied Anthropology Meeting 2019; March 19–23. Portland, OR.
- 2019 Hughes Miller, M., **Smith, Chrystal A. S.**, M. Mayberry, R. Campbell-Montalvo, and H. Wao. Queer in STEM in the South: Locating Undergraduate Narratives of Inclusion and Marginalization. Paper presented at The Southeastern Women’s Studies Association Meeting 2019; March 7–9. Oxford, MS.
- 2019 Mayberry, M., Hughes Miller, M., **Smith, Chrystal A. S.**, R. Campbell-Montalvo, and H. Wao. Academic Climate, Social Networks and Identity Management among Transgender and Gender Non-Binary STEM Students. Paper presented at The Society for the Study of Social Problems Meeting 2019; August 9–11. New York, NY.
- 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. (Poster)
- 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. (Poster)
- 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. (Poster)
- 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. 114th 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.
- 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. (Poster)
- 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. 24th Annual USF Health Research Day, Tampa, FL. (Poster)
- 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.
- 2011 **Smith, Chrystal A. S.**, Wilson, Tasha-Neisha, & Borman, Kathryn. Dual Enrollment in Florida. 110th Annual Meeting, American Anthropological Association, Montreal, Canada. (Poster)
- 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. (Poster)
- 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. 55th 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.
- 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. (Poster)
- 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.
- 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. (Poster)
- 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.

INVITED PRESENTATIONS AND SESSIONS

- 2018 Exploring the Influence of Parents and Teachers on the Decisions of Women and Minorities' to Engineering Undergraduate Degrees
University of Connecticut African American Faculty and Staff Organization, Storrs, CT.
- 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; Health and Human Rights in Latin America and the Caribbean; 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
Social Anthropology
Illness and Curing
Cultural Research
Other People's Worlds W
Anthropological Perspectives on Women's Global Health

Spring 2013	Adjunct Instructor <i>College of Public Health, University of South Florida</i> Women's Health: A Public Health Perspective Critical Issues in Public Health
Fall 2012	Adjunct Instructor <i>College of Public Health, University of South Florida</i> Women's Health: A Public Health Perspective Critical Issues in Public Health
2005-2006	Graduate Teaching Assistant <i>Department of Anthropology, University of South Florida</i> Quantitative Research Methods for Applied Anthropology (doctoral level) Quantitative Research Methods for Applied Anthropology (master's level)
1999-2001	Graduate Teaching Assistant <i>Department of Anthropology, University of South Florida</i> Introduction to Anthropology
1995-1996	Graduate Teaching Assistant <i>Department of Anthropology, University of Maryland, College Park</i> Human Biodiversity; Introduction to Biological Anthropology Introduction to Sociocultural Anthropology (Primary instructor)

UNIVERSITY OF CONNECTICUT REVIEWER DISSERTATION COMMITTEE

2018	Latanya Brandon	Doctoral Candidate	Curriculum and Instruction
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UNIVERSITY OF CONNECTICUT ADVISEES

Present	Kiana Nowlin	Undergraduate	The Black Experience & Global Health
Present	Marie-Claire Meadows	Undergraduate	Global Health
Present	Anneke Levine	Undergraduate	Global Health
Present	Channa Leelakrishna	Undergraduate	Health Care & Society

UNIVERSITY OF SOUTH FLORIDA MENTEES/STUDENTS SUPERVISED

2015-present	Rebecca Campbell	Postdoctoral Scholar	Anthropology
2015	Simone Brookins	Graduate/Ph.D.	Education
2015	Gabriela Romero	Graduate/Masters	Medical Sciences
2013	Nora Brickhouse Arriola	Graduate/Masters	Anthropology
2012	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

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
American Society of Engineering Education

REFERENCES

Gladis Kersaint, Ph.D.

Dean and Professor of Mathematics Education
Department of Curriculum and Instruction
Neag School of Education
University of Connecticut
Charles B. Gentry
249 Glenbrook Rd #3064
Storrs, CT 06269
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Michelle Hughes Miller, Ph.D.

Associate Professor
Department of Women's and Gender Studies
University of South Florida
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Tampa, FL 33620-7200
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Edward Fletcher, Ph.D.

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