

CYNTHIA A. GRACE-MCCASKEY

Department of Anthropology
East Carolina University
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EDUCATION

Ph.D., May 2012

- University of South Florida, Department of Anthropology, Tampa, FL
- Dissertation: Fishermen, Politics, and Participation: An Ethnographic Examination of Commercial Fisheries Management in St. Croix, U.S. Virgin Islands
- Graduated summa cum laude

M.A., May 2006

- University of Miami, Rosenstiel School for Marine and Atmospheric Science, Division of Marine Affairs and Policy, Miami, Florida
- Thesis: Understanding the Social and Economic Links Between the Greater Miami Area and the Recreational Fishing Industry
- Graduated magna cum laude

B.A., May 2001

- Wake Forest University, Department of Psychology, Winston-Salem, North Carolina
- Graduated cum laude

RESEARCH INTERESTS

Environmental anthropology, political ecology, public/community participation in natural resource management, ethnography, sociocultural anthropology, sustainability, traditional ecological knowledge, common property resources, cooperative management systems and institutions, marine tenure systems and territoriality, social-ecological systems, socioeconomic assessment, human-nature relationship, environmental policy, sustainable resource use

RESEARCH AND PROFESSIONAL EXPERIENCE

Assistant Professor / Assistant Scientist

East Carolina University
Department of Anthropology & Coastal Studies Institute (CSI)
Greenville, NC

2016 - Present

Social Science Research Program Manager

University of Hawai'i Joint Institute for Marine and Atmospheric Research
& NOAA Fisheries Pacific Islands Fisheries Science Center
Human Dimensions Research Program
Honolulu, HI

2011 - 2015

Cooperative Research Coordinator

NOAA Fisheries Southeast Fisheries Science Center
St. Croix, U.S. Virgin Islands

2010

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| Social Science Consultant NOAA Fisheries Southeast Fisheries Science Center Miami, FL | 2005 – 2010 |
| Research Assistant Eckerd College St. Petersburg, FL | 2008 |
| Research Assistant Florida International University Miami, FL | 2008 |
| Social Scientist Alliance for Applied Research in Education & Anthropology University of South Florida Tampa, FL | 2006 – 2008 |
| Research Intern NOAA Fisheries Southeast Fisheries Science Center Miami, FL | 2005 – 2006 |

GRANTS AND AWARDS

Grants Awarded

- 2018 – 2020 *PI: Grace-McCaskey, C.* Using Network Analysis to Examine the Political Ecology of Small-Scale Fisheries Management. National Science Foundation. Total amount funded: \$136,318.
- 2018 – 2020 *Co-PIs: Luczkovich, J., Grace-McCaskey, C., Griffith, D., & del Pozo, M.* Ciguatoxin Detection and Model Predictions for Use in Fisheries Management in Puerto Rico and US Virgin Islands. Puerto Rico Sea Grant. Total amount funded: \$119,321.
- 2018 – 2019 *Co-PIs: Tsui, M., Ardon-Sayao, M., Blakeslee, A., & Grace-McCaskey, C.* New Focus on a Regional Problem in Eastern NC: What Are the Impacts of Increased Salinity on Mercury, Parasite Prevalence in Fish, Fishing Behaviors, and Perceptions of Human Health Risk? UNC Inter-institutional Planning Grant (IPG) Stage 1 proposal. Total amount funded: 25,000
- 2017 – 2018 *Co-PIs: Griffith, D., Grace-McCaskey, C., del Pozo, M., García-Quijano, C., & Lloréns, H.* Rapid Response Research: The Political and Moral Economies of Recovery from Hurricanes Irma and María in Puerto Rico and the U.S. Virgin Islands. National Science Foundation. Total amount funded: \$33,763
- 2016 – 2018 *Co-PIs: Manda, A. Grace-McCaskey, C. & Etheridge, R.,* EAGER: Investigating Drivers of Stormwater Flooding in Coastal Communities: A Citizen Science Project. National Science Foundation. Total amount funded: \$99,922.
- 2014 – 2015 *PI: Grace-McCaskey, C.A. (UH/JIMAR).* What Influences Fishing Community Participation in the Federal Fisheries Management System? A Guam Case Study. NMFS. Total amount funded: \$40,000.

- 2013 – 2014 *PI: Grace-McCaskey, C.A. (UH/JIMAR). Utilizing Recreational and Commercial Fishermen’s Knowledge and Perspectives in Assessing Annual Catch Limits in the Pacific Islands Region. NMFS. Total amount funded: \$100,000.*
- 2012 – 2014 *PI: Grace-McCaskey, C.A. (UH/JIMAR). Knowledge, Attitudes, and Perceptions of Coral Reefs in the Two Hawai`i Priority Sites. NOAA Coral Reef Conservation Program. Total amount funded: \$70,000.*
- 2010 – 2011 *PI: Grace, C. (University of South Florida). History, Politics, and Participation: An Ethnographic Examination of Fisheries Management in St. Croix. PADI Foundation. Total amount funded: \$5,000.*
- 2005 – 2007 *Co-author: Understanding Career Pathways in Science, Technology, Engineering and Mathematics. National Science Foundation (NSF# 1777-100000). Total amount funded: \$1.4 million.*

Grants Pending

- 2019 – 2021 *Co-PIs: Asch, R., Grace-McCaskey, C., & Rulifson, R. Maximizing Recreational and Commercial Fishing Opportunities for Atlantic Striped Bass through Seasonal and Long-Term Forecasts of Anadromous Fish Migration. Saltonstall-Kennedy Grant Program. Amount pending: \$231,764.*
- 2019 – 2021 *Co-PIs: Yandle, T., Sweeny Tookes, J., & Grace-McCaskey, C. Socioeconomic Impacts and Adaptation to Severe Storms in USVI Fishing Communities. Saltonstall-Kennedy Grant Program. Amount pending: \$299,463.*

Awards

- 2018 ECU Thomas Harriot College of Arts and Sciences Faculty Travel Grant
- 2012 – 2015 JIMAR Performance Award

PUBLICATIONS

Journal Articles and Research Reports

- 2018 **Grace-McCaskey, C.A.** Multi-scale Fisheries Management in St. Croix, USVI: What Influences Participation? *Human Organization* 77(2):157-171.
- 2018 **Grace-McCaskey, C.A.**, and B. Iatarola. Ethnographies of Citizen Science: Lessons from Within. Revisions requested for Special Issue of *Society and Natural Resources* on Novel and Controversial Methods in the Social Sciences, K. Floress and S. Sachdeva (eds).
- 2017 **Grace-McCaskey, C.A.**, A.K. Manda, J.R. Etheridge, and J. O’Neill. The Use of Citizen Science in Groundwater Monitoring: Impacts of Participation on Knowledge and Attitudes, and Implications for Management. Manuscript submitted to *Environmental Management*.
- 2017 Narchi, N., N. Corona, E. Morteo, O. Cervantes, A. Olivos-Ortiz, T.E. Martínez Díaz, M.M.E. Capistrán, M.A. Mesa-Jurado, Y. Ochoa, G.G.M. Moura, C.M. Beitzl, **C.A. Grace-McCaskey**, A. Espinoza-Tenorio, H. Nava, M. Cariño, A.K. Spalding. Los alcances de la Oceanografía Social. Manuscript accepted to *Sociedad y Ambiente*.

- 2016 Weijerman, M., **C. Grace-McCaskey**, S.L. Grafeld, D.M. Kotowicz, K.L.L. Oleson, and I.E van Putten. Towards an Ecosystem-Based Approach of Guam's Coral Reefs: the Human Dimension. *Marine Policy* 63:8-17.
- 2016 **Grace-McCaskey, C.A.** Understanding Hawai'i Resource Users' Knowledge, Attitudes, and Perceptions of Coral Reefs in South Kohala. Administrative Report H-16-02. NMFS-PIFSC. NOAA: Honolulu.
- 2015 **Grace-McCaskey, C.A.** American Samoa Fishing Community Profile: 2013 Update. Administrative Report H-15-04. NMFS-PIFSC. NOAA: Honolulu.
- 2014 **Grace-McCaskey, C.A.** Examining the Potential of Using Secondary Data to Better Understand Human-Reef Relationships Across the Pacific. Administrative Report H-14-01, NMFS-PIFSC. NOAA: Honolulu.
- 2012 **Grace, C.A.** and B.W. Stoffle. Understanding the Social and Economic Links Between the Greater Miami Area and the Recreational Fishing Industry. Technical Memorandum, NMFS-SEFSC. NOAA: Miami.
- 2012 **Grace-McCaskey, C.A.** Development of Indicators for Measuring Effects of Human Activities on Central Pacific Coral Reefs. Proceedings of the 12th International Coral Reef Symposium, Cairns, Australia, 9-13 July 2012.
- 2011 **Grace-McCaskey, C.A.** and H. E. Tonnemacher. Fishery Independent Survey Program for the Coral Reef Fisheries in the U.S. Caribbean. Final report submitted to NMFS.
- 2009 Stoffle, B., D. Snodgrass, **C. Grace**, J. Contillo, L. Perusso, T. Davis, M. Judge, and J. Agar. The Socio-economic Importance of Fishing in St. Thomas, USVI: An Examination of Fishing Community Designation. NOAA Technical Memorandum NMFS-SEFSC-623.
- 2008 Zarger, R. K., D. Ombara, A. Subalusky, and **C. Grace**. Gender and Sociocultural Complexities of Water use and Management in the Mara River Basin. Policy Brief, Global Water for Sustainability (GLOWS) and World Wildlife Fund, East Africa Region Programme Office, Nairobi, Kenya, October 2008.

Book Chapters

- 2010 Forde, S.C., **C.A. Grace**, and B.A. Cotner. *Culture: How Departmental Values Facilitate Program Efficacy*. In Borman, K., R. Halperin, and W. Tyson, Eds. "Becoming an Engineer in Public Universities: Pathways for Women and Minorities." Palgrave Macmillan: New York.

PROFESSIONAL PAPERS, POSTERS, AND PRESENTATIONS

- 2018 **Grace-McCaskey, C.A.** (with D. Griffith). Panel Co-organizer and presenter. Disaster Economics in the Caribbean. American Anthropological Association Annual Meeting. San Jose, CA.

- 2018 **Grace-McCaskey, C.A.** (with B. Iatarola). Panel Co-organizer and presenter. Applied Connections: Bridging Participatory Science and Management with Citizen Science and Anthropology. Society for Applied Anthropology. Philadelphia, PA.
- 2017 **Grace-McCaskey, C.A.**, A.K. Manda, J.R. Etheridge, and J. O'Neill. A Citizen Science Approach to Groundwater Monitoring: The Impacts of Participation on Knowledge and Attitudes, and Implications for Management. Paper presented at Geological Society of America 129th Annual Meeting. Seattle, WA.
- 2017 **Grace-McCaskey, C.A.** Incorporating Fishers' Knowledge and Perceptions into Setting Annual Catch Limits for Saipan Reef Fisheries. Society for Applied Anthropology, Santa Fe, New Mexico.
- 2017 **Grace-McCaskey, C.A.** The Political Ecology of Fisheries Management in St. Croix, US Virgin Islands. Dimensions of Political Ecology Conference. Lexington, KY.
- 2014 **Grace-McCaskey, C.A.** Knowledge, Attitudes, and Perceptions of Coral Reefs in Hawai'i's Priority Sites. Invited presenter at Hawai'i Division of Aquatic Resources Coral Reef Sharing Session. Honolulu, HI.
- 2014 **Grace-McCaskey, C.A.** and L. Sievanen. Saipan Fisheries Workshop Data for Use in Reef Fishery SEEM Analysis. Invited presenter at Western Pacific Regional Fishery Management Council SEEM Working Group Meeting. Honolulu, HI.
- 2013 **Grace-McCaskey, C.A.** and L. Sievanen. Understanding Resource Users' Knowledge, Attitudes, and Perceptions of Coral Reefs in South Kohala. Paper presented at Hawai'i Conservation Conference. Honolulu, HI.
- 2013 **Grace-McCaskey, C.A.** and L. Sievanen. Knowledge, Attitudes, and Perceptions of Coral Reefs in South Kohala. Invited presenter at Hawai'i Fisheries Local Action Strategy Meeting. Honolulu, HI.
- 2013 **Grace-McCaskey, C.A.** and L. Sievanen. What Do Your Neighbors Think? Knowledge, Attitudes, and Perceptions of Coral Reefs in South Kohala. Invited presenter at Hawai'i SeaGrant Reef Talk Series. Puako, HI.
- 2013 **Grace-McCaskey, C.A.** Social Science and Annual Catch Limits in the Western Pacific. Paper presented at the Annual Meeting of the North American Association of Fisheries Economists. St. Petersburg, FL.
- 2013 **Grace-McCaskey, C.A.** Fishermen, Politics, and Participation: An Ethnographic Examination of Commercial Fisheries Management in St. Croix, U.S. Virgin Islands. Paper presented at the Annual Meeting of the Society for Applied Anthropology. Denver, CO.
- 2013 **Grace-McCaskey, C.A.** and D. Kotowicz. Survey of Residents and Fishermen on the Marianas Trench Marine National Monument: Preliminary Results. Invited presenter at the 2013 Commonwealth of the Northern Mariana Islands Fisheries Workshop. Saipan, CNMI.
- 2012 **Grace-McCaskey, C.A.** Development of Indicators for Measuring Effects of Human Activities on Central Pacific Coral Reefs. Paper presented at the 12th Annual Coral Reef Symposium. Cairns, Australia.
- 2012 **Grace-McCaskey, C.A.** Comparing the Human Dimensions of Reefs and Atolls Across the Central Pacific. Paper presented at the First JIMAR/PIFSC Symposium. Honolulu, HI.

- 2010 **Grace, C.A.** Examining the Negotiation of Resource Management Decentralization and Globalization: The Commercial Fishers of St. Croix, US Virgin Islands. Paper presented at the Annual Meeting of the Society for Applied Anthropology. Merida, Mexico.
- 2009 Workman, C.L. and **C.A. Grace**. "I'm not saying like I'm not a dork sometimes:" Understanding Departmental Climate, Student Self-Perception and Fit in Retaining Female and Underrepresented Minority Engineering Students. Paper presented at the Annual Meeting of the Society for Applied Anthropology. Santa Fe, NM.
- 2008 Lee, R.S., H. Wao, **C.A. Grace**, and C.L. Workman. Climate Perceptions Among Engineering Students: An Application of James' rwg Statistic in Assessing Agreement Among Raters. Paper presented at the Annual Meeting of the Florida Educational Research Association. Orlando, FL.
- 2008 **Grace, C.A.**, C. Workman, J. Miller and K. Borman. From "Pipeline" to "Pathway": A Critical Understanding of the Undergraduate Retention Experience. Poster presented at the Annual Meeting of the Florida Educational Research Association. Orlando, FL.
- 2008 Borman, K., M.A. Hanson, A. Nixon, B. Cotner, C. Peterson, C. Workman, C. Ostroff, **C. Grace**, E. Fernandez, H. Meikle, J. Miller, J. Fraser, M. Rivera, R. Lee, T. Micceri, and W. Tyson. Effects of College Degree Program Culture on Female and Minority Student Science, Technology, Engineering, and Mathematics (STEM) Participation. Poster presented at the NSF STEP PI Meeting. Tampa, FL.
- 2007 Hunsecker, J., C. Workman, B. Cotner, **C. Grace**, C. Peterson, R. Lee, K. Borman, and M. Hanson. The Rise of Women and Minorities in STEM Fields: Closing the Gap on Disparities in Higher Education. Paper presented at the Society for Applied Anthropology 67th Annual Conference. Tampa, FL.

WORKSHOPS AND SYMPOSIA

- 2018 Invited Participant, National Science Foundation Coastlines and People (CoPe) Workshop. Atlanta, GA.
- 2017 Invited Participant, 1a Reunion de Oceanografia Social (First Meeting of Social Oceanography). El Colegio de Michoacan, A.C., La Piedad, Michoacan, Mexico.
- 2013 Workshop organizer and facilitator. Reef Fishing in Saipan: Patterns, Trends, and Importance. Saipan, CNMI.
- 2013 Invited Participant, Pacific Islands Region FAD Issues and Priorities Workshop. Honolulu, HI.
- 2013 Invited Presenter and Participant, Pacific Islands Region Recreational (Non-Commercial) Fisheries Roundtable. Honolulu, HI.
- 2013 Invited Participant, Coastal and Marine Spatial Planning Workshop Training. Honolulu, HI.
- 2013 Invited Presenter and Participant, Commonwealth of the Northern Mariana Islands Fisheries Workshop. Saipan, CNMI.
- 2012 Invited Participant, South Kohala Conservation Action Plan Measures Workshop. South Kohala, HI.
- 2011 Invited Participant, Workshop to Develop a Framework for Long-Term Monitoring of Human Dimensions of Coral Reef Ecosystems of the Main Hawaiian Islands. Honolulu, HI.
- 2011 Invited Participant, Puwalu 2011: Hawai`i's Fisheries Regulatory Review. Honolulu, HI.

- 2011 Invited Participant, Small-scale and Artisanal Fisheries Research Network, Expert Researcher Workshop. Scripps Institution of Oceanography, UCSD. San Diego, CA.
- 2007 Workshop organizer and facilitator. Grace, C., J. Miller, M. Rivera, and C. Workman. Introduction to Participatory Action Research. Workshop presented at Annual Meetings of the American Anthropological Association., Washington, D.C.

TEACHING AND ADVISING

Courses Taught

Environmental Anthropology
Introduction to Anthropology

Graduate and Post-Graduate Advisees

Kimberly Byrnes (M.A. Advisor, Anthropology, 2017 – present)
Henry Raab (Ph.D. Committee, Coastal Resources Management, 2016 – present)
E. Frank Dembowski (M.A. Advisor, Anthropology, 2016 – present)
William Alexander (M.A. Committee, Anthropology, 2016 – present)
Jennifer E. Jones (advisor/mentor for submission of NSF post-doctoral fellowship, 2017 – present)
Jennifer O'Neill (Dissertation Director, Coastal Resources Management, 2016 – 2017)

PROFESSIONAL TRAINING

- 2017 Introduction to Social Network Analysis. Statistical Horizons. Philadelphia, PA.
- 2013 Social Network Analysis Workshop and Training. Denver, CO.
- 2013 Arc GIS Mapping and Spatial Analysis. Honolulu, HI.
- 2013 Coastal and Marine Spatial Planning Workshop Training. Honolulu, HI.
- 2012 US Census Data and Analysis Training. Honolulu, HI.
- 2007 National Science Foundation Field Course in Anthropological Research Methods. Department of Beni, Bolivia.
- 2005 Marine GIS Analysis Training. Miami, FL.
- 2005 University of Miami Field Course in Political Ecology. Glover's Reef, Belize.
- 2005 Field Course in Underwater Archaeological Excavation, Little Salt Spring. Northport, FL.
- 2005 Field Course in Tropical Marine Biology. Bimini, Bahamas.
- 2003 Wilderness Natural History Backpacking Leadership Course. National Outdoor Leadership School. Wind River Wilderness, WY.

PROFESSIONAL ASSOCIATIONS AND SERVICE

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| Society for Applied Anthropology | Member | 2006 – Present |
| IUCN Commission on Ecosystem Management, Cultural Practices Thematic group | Member | 2017 – Present |

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| Joint Institute for Marine and Atmospheric Research Council | Chair and member | 2012 – 2014 |
| International Society for Reef Studies | Member | 2012 – 2015 |
| Reviewer for National Science Foundation | | |
| Reviewer for Journal of Ecological Anthropology | | |
| Reviewer for Saltonstall-Kennedy Grant Program | | |
| Reviewer for NOAA Hollings Scholarships | | |
| Reviewer for NOAA Educational Partnership Program Undergraduate Scholarships | | |

UNIVERSITY SERVICE

East Carolina University

Early Career Coastal and Climate Seminar Series Selection Committee (2018 – present)

Department of Anthropology Vision Committee (2017 – present)

Department of Anthropology Curriculum Committee (2017 – present)

Committee member, Coastal Maritime Council Student Coastal Research Awards (2017 – present)

Search committee for Anthropology Department Faculty position (2017 – present)

Anthropology M.A. Teaching Track curriculum development committee (2017)

Coastal Maritime Council member, Anthropology Department representative (2016 – present)

Coastal Resources Management Ph.D. program admissions committee (2016 – present)

Search committee for Institute for Coastal Management and Policy/Department of Biology Joint Faculty Position (2016)