

# Charlyne Todd Smith, Ph.D.

Department of Parks, Recreation and Tourism Management  
College of Natural Resources  
North Carolina State University  
Campus Box 8004, 3024-B Biltmore Hall  
Raleigh, NC 27596-8004  
Tel: 919.513.7797  
Email: ctsmith2@ncsu.edu

## EDUCATION

**Ph.D., Parks, Recreation and Tourism Management** **December 2017**  
North Carolina State University, Raleigh, NC

*Specialization:* Human Dimensions of Natural Resources, Application of Geospatial Technologies for Natural and Cultural Resource Management

*Dissertation:* Adoption and Implementation of Participatory GIS Technologies in Resource Management Networks: A Study of the U.S. National Trails System

**Master of Natural Resources Administration** **May 1997**  
North Carolina State University, Raleigh, NC

*Concentration:* Spatial Information Science *Minor Concentration:* Landscape Architecture

**B.Sc., Recreation Resources Administration** **May 1988**  
North Carolina State University, Raleigh, NC

*Concentration:* Program Management

## RESEARCH AND ACADEMIC INTERESTS

- Delivery of solution-driven research for positive impact addressing decision-support systems and collaboration within and across organizations.
- Evaluate the capacity for adoption and dissemination of innovative collaboration tools for communication among natural and cultural resource management stakeholders.
- Implementation of spatial information technologies for visualization, analysis and communication related to human dimensions of natural and cultural resources.
- Scholarship of Teaching and Learning: Distance Education; Professional Development; Service Learning; Geospatial Science & Technology; Human Dimensions of Natural Resources; Park, Recreation & Leisure Services.

## PROFESSIONAL EXPERIENCE

<b>Director</b> , Recreation Resources Service (RRS) North Carolina State University, Raleigh, NC		2018 - present
<b>Research Associate</b> North Carolina State University, Raleigh, NC		1997- 2018
<i>Responsibilities shared between Center for Geospatial Analytics and Recreation Resources Service within the Department of Parks, Recreation and Tourism Management.</i>		
• <b>GIS Research Associate</b> Center for Geospatial Analytics		1997- 2018
• <b>Associate Graduate Faculty</b> Master of Geospatial Information & Technology (MGIST) Program		2011- 2018
• <b>Consultant &amp; GIS Specialist</b> , Recreation Resources Service (RRS)		1997- 2018
<b>Director</b> Supervisors' Management School	Wheeling, WV	2005- 2019
<b>Graduate Research Assistant</b> NCSU, Recreation Resources Service (RRS)	Raleigh, NC	1995 - 1997
<b>Assistant Director</b> Historic Bethabara Park	Winston-Salem, NC	1992 - 1995
<b>Park Ranger</b> Mecklenburg County Park and Recreation	Charlotte, NC	1989 - 1992

## PROFESSIONAL DEVELOPMENT AND CERTIFICATION

- Inclusive Excellence and Strategic Practice (IESP) Certificate Program, NC State University Office for Institutional Equity and Diversity, 2022.
- Green Zone Training, NC State University, 2018.
- CoAT Graduate Certificate: Certificate of Accomplishment in Teaching, NC State University, 2013
- Fellow, Natural Resources Leadership Institute (NRLI), NC State University 2011
- GISP Certification: Geographic Information Systems Professional (GISP): GIS Certification Institute (GISCI), 2009-2019.
- Supervisors' Management School (SMS): Two Year Supervision and Leadership Program, NC State University Office of Continuing Education and Professional Development, 2006

## RESEARCH AND GRANTS

Served in lead role for funded research projects totaling over \$700,000 with local, state and Federal agencies since 2006.

### *Funded:*

1. **Smith, C.** (2018-2023) Amount: \$68,492. GIS Database Development for the Overmountain Victory National Historic Trail (OVNHT). CESU National Park Service.
2. Seekamp, E. & **Smith, C.** (2020-2026) Amount: \$4,386,886. Recreation Resources Service (RRS). NC Department of Natural & Cultural Resources.
3. Tsai, C., Shrestha, A., Ferguson, S., **Smith, C.**, Slocumb, W. & Meentemeyer, R. (2016-2018). Amount: \$237,959. Powering Energy Efficiency & Impacts Framework: Mapping a comprehensive energy strategy for the Upper Coastal Plain Council of Governments Region. Sub-Award of a \$477,202 award to the Upper Coastal Plain COG from the US Department of Energy EERE.
4. Meentemeyer, R. & **Smith, C.** (2015-2017). Amount: \$16,173. Phase 6 GIS Database Development for the Overmountain Victory National Historic Trail (CESU). National Park Service.
5. Meentemeyer, R. & **Smith, C.** (2014-2015). Amount: \$75,000. Federal Lands Transportation Program: Roads GIS Mapping for USACE.
6. Smith, J.W., Slocumb, W., **Smith, C.T.** & Devine, H.A. (2013-2016). Amount: \$114,997. Needs Assessment and Guidance to Define a Clear Vision for a Geospatial Mapping System -- to Service the Needs and Opportunities of the National Park Service - Conservation and Outdoor Recreation Branch and Related Programs
7. Devine, H., Leung, Y.F., Smith, J. W., Slocumb, B., **Smith, C. T.**, Shedd, J., & Fang, K. (2013-2014). Amount: \$20,000. Needs assessment and guidance to define a clear vision for a geospatial mapping system to service the needs and opportunities of the National Park Service Conservation and Outdoor Recreation Branch and related programs. National Park Service.
8. **Smith, C.** & MacDougall, J. (2007-2008). Amount: \$4,500. Wake County Trails and Greenways Spatial Database. Wake County Health and Human Services, Recreation Resources Service. Focus: Assemble data from 13 local governments and produce maps for publication.

## PUBLICATIONS

### *Peer Reviewed Articles (Published)*

1. **Smith, C. T.**, Leung, Y.-F., & Seekamp, E. L. (2020). Assessing geospatial technology implementation capacity for natural resource management networks: A proposed framework. *Journal of Park and Recreation Administration*.
2. V. Boyina, R., Catts, G., **Smith, C.**, and Devine, H. (2015). "Hydrologic Web-Mapping Application of Hofmann Forest with GIS Approach: Case Study." *Journal of Hydrologic Engineering*. 10.1061/(ASCE)HE.1943-5584.0001285 , E5015006.

3. Smith, J. W., Slocumb, B., **Smith, C.**, & Matney, J. (2015). A needs assessment protocol for designing, developing and deploying unified geospatial data management systems within federal agencies. *Journal of Map & Geography Libraries*. 11: 226-244.
4. **Smith, C.**, Santucci, D., Xu, S., Cox, A., & Henderson, K.A. (2012). "I love my job, but..." A narrative analysis of women's perceptions of their careers in parks and recreation. *Journal of Leisure Research*.

### **Book Chapter**

1. **Smith, C.**, Martin, V. (in press). A decade of leadHERship. In: Schneider, I, & Kivel, D (eds.), *Diversity & Inclusion in the Recreation Profession: Organizational Perspectives*.
2. **Smith, C.**, Walden-Schreiner, C., & Leung, Y.-F. (2016). Participatory GIS in recreation resource planning. In: Baas, J., & Burns, R. (eds.), *Outdoor Recreation Planning*. Urbana, IL: Sagamore Publishing.

### **PROFESSIONAL HONORS AND MEMBERSHIPS**

#### **Professional**

- Fellow, Natural Resources Leadership Institute (NRLI), NC State University. 2010-2011.
- Academy of Outstanding Faculty Engaged in Extension (AOFEE): inducted to Academy April 2003.
- AOFEE Executive Council – Elected to serve three year term 2006 – 2009, served as Chair in 2009, Ex-Officio in 2010.
- Geographic Information Systems Professional (GISP): certified GISP in February 2009 by GISCI
- NCSU Outstanding Extension Service Award, 2001-2002 – College of Natural Resources
- NCSU College of Natural Resources University Award for Excellence, 2001