

Christopher Serenari

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EDUCATION

North Carolina State University, Raleigh, North Carolina
Ph.D., Forestry and Environmental Resources (FER), August 2014
College of Natural Resources (CNR)

Dissertation: *Conservation and development in Chilean Patagonia: Assessing value orientations, cultural truths, and rural change in the context of public and private protected areas*

North Carolina State University, Raleigh, North Carolina
Master of Science, May 2010
Field: Natural Resources (Parks, Recreation, and Tourism Management [PRTM])
College of Natural Resources

Master's Thesis: *Understanding environmentally significant behavior among guides in the Garhwal Himalaya, India*

Bowling Green State University, Bowling Green, Ohio
Bachelor of Science, December 2000
Major: Environmental Health

CURRENT POSITION

Assistant Professor in Human Dimensions of Wildlife, August 2018-Current
Texas State University

PEER-REVIEWED PUBLICATIONS

Decision Making and Behavior

Serenari, C., Shaw, J., Myers, R., & Cobb, D. 2018. Explaining deer hunter preferences for regulatory changes using choice experiments. *Journal of Wildlife Management*.

<http://dx.doi.org/10.1002/jwmg.21604>.

Burke, C.R., Peterson, M.N., Sawyer, D., Moorman, C.E., Serenari, C., Meentemeyer, R.K., & Deperno, C.S. 2018. Predicting private landowner hunting access decisions and hunter density. *Human Dimensions of Wildlife*. DOI: 10.1080/10871209.2018.1545147.

Valdez, R.X., Drake, M.D., Burke, C.R., Peterson, M.N., Serenari, C., & Howell, A. 2018. Recreational site preferences among anglers related to developed landscapes. *Urban Ecosystems*.

<https://doi.org/10.1007/s11252-018-0800-8>.

Serenari, C. & Peterson, M.N. 2018. Evaluating the cultural fit of hunting and angling among minority sportspersons in North Carolina. *Leisure Sciences*, <https://doi.org/10.1080/01490400.2018.1458262>.

PEER-REVIEWED PUBLICATIONS CONT'D

Clark, K.E., Cupp, K., Phelps, C.L., Peterson, M.N., Stevenson, K.T., & Serenari, C. 2017. Household dynamics of wildlife value orientations. *Human Dimensions of Wildlife*, 22(5), 483-491.

Serenari, C., Peterson, M.N., Gale, T., & Fahlke, A. 2015. Relationships between value orientations and wildlife conservation policy preferences in Chilean Patagonia. *Human Dimensions of Wildlife*, 20(3), 271-279.

Serenari, C., Peterson, M.N., Stowhas, P., Leung, Y-F, Wallace, T., & Sills, E. 2015. Private development-based forest conservation in Patagonia: Comparing mental models and revealing cultural truths. *Ecology and Society*, 20(3). <http://dx.doi.org/10.5751/ES-07696-200304>

Serenari, C., Peterson, M.N., Moorman, C.E., Cubbage, F.W., & Jervis, S.M. 2015. Application of choice experiments to determine stakeholder preferences for woody biomass harvesting guidelines. *Journal of Sustainable Forestry*, 34(4), 343-357.

Serenari, C., Peterson, M.N., & Clark, B. 2015. Theorizing logger religion within the Pacific Northwest timber conflict. *Worldviews*, 19(3), 265-281.

Serenari, C., Leung, Y-F., Attarian, A., & Franck, C. 2012. Understanding environmentally significant behavior among whitewater rafting and trekking guides in the Garhwal Himalaya, India. *Journal of Sustainable Tourism*, 20(5), 757-772.

Conservation Governance

Serenari, C., Cobb, D.T., & Peroff, D. 2018. Using policy goals to evaluate large carnivore reintroduction: The case of the Red Wolf Recovery Program in North Carolina. *Human Dimensions of Wildlife*, 23, 459-475.

Serenari, C., Peterson, M.N., Wallace, T., & Stowhas, P. 2017. Indigenous perspectives on private protected areas in Chile. *Natural Areas Journal*, 37(1), 98-107.

Serenari, C., & Peterson, M.N. 2016. A sociopolitical perspective on illegal take of wildlife in the southeastern USA. *International Journal of Rural Criminology*, 3(1), 29-49.

Serenari, C., Peterson, M.N., Stowhas, P., & Wallace, T. 2016. Private protected areas, ecotourism development, and impacts on local people's well-being: A review from case studies in southern Chile. *Journal of Sustainable Tourism*. doi: 10.1080/09669582.2016.1178755

Serenari, C., & Leung, Y-F. 2013. Going global: Rethinking the cross-cultural transfer of minimal impact education programs in protected areas. *Journal of Park and Recreation Administration*, 31(2), 61-75.

Serenari, C., Bosak, K., & Attarian, A. 2013. Cross-cultural efficacy of American low-impact programs: A comparison between Garhwal guide beliefs on environmental behavior and American outdoor travel norms. *Tourism Management*, 34, 50-60.

Serenari, C., Peterson, M.N., Bardon, R.E., & Brown, R.D. 2013. The impacts of the Great Recession on state natural resource extension programs. *Journal of Extension*, 51(4).

PEER-REVIEWED PUBLICATIONS CONT'D

In Review

Serenari, C., & Taub, M. Predicting the legitimacy of red wolf recovery in North Carolina. *Wildlife Biology*.

Burke, C.R., Peterson, M.N., Sawyer, D., Moorman, C.E., **Serenari, C., & Pacifici, K.** A Method for mapping hunting occurrence using publicly-available, Geographic Variables. *Wildlife Society Bulletin*.

UNPUBLISHED REPORTS

Acknowledgment of Support: Responsive Management, Inc. 2018. *North Carolina migratory bird hunters' and the general public's opinions on and attitudes toward the hunting of migratory birds on Sunday in North Carolina*. Harrisonburg, VA.

Shaw, J., **Serenari, C.,** Myers, R., & Cobb, D. 2017. *North Carolina Deer Hunting and Management Survey*. Raleigh: North Carolina Wildlife Resources Commission.

Acknowledgment of Support: Responsive Management, Inc. 2016. *Albemarle Peninsula Residents' Perspectives and Views on Coyote and Red Wolf Management*. Harrisonburg, VA.

Singh, D., Pope, J., Cubbage, F., Peterson, N., Jervis, S., **Serenari, C., & Glenn, V.** 2016. *Determine Certainty Program Framework of a Market Based Conservation Initiative for Longleaf Pine Habitat Improvements in Eastern North Carolina*. Raleigh, NC: North Carolina State University.

National Association of State Park Directors. 2013. Leung, Y-F., Miller, A., & **Serenari, C.** *Statistical Report of State Park Operations in the U.S.: 2012-2013*. Raleigh, NC: North Carolina State University.

Corporación Nacional Forestal. 2013. Gale, T. Fahlke, A., & **Serenari, C.** *Recopilación de Datos y Opiniones acerca de la Reserva Nacional Tamango – Base para un Plan de Uso Público*. Coyhaique, Chile: Centro de Investigación en Ecosistemas de la Patagonia.

Burke, C., Steelman, T., & **Serenari, C.** 2012. *Synthesis report: Current work on prescribed fire related to longleaf pine restoration*. Raleigh, NC: North Carolina State University, Regional Readiness Cooperative.

National Association of State Park Directors. 2009. Leung, Y-F., Siderelis, C., & **Serenari, C.** *Statistical Report of State Park Operations in the U.S.: 2008-2009*. Raleigh, NC: North Carolina State University

PROFESSIONAL PRESENTATIONS AND POSTERS

Invited

Panelist. American Association for the Advancement of Science. Dialogues on Science, Ethics, and Religion. Conversations on The Social Impacts of Science and Emerging Technologies, Part 1: Ecology and Ethics. November 9, 2018, Texas State University.

PROFESSIONAL PRESENTATIONS AND POSTERS CONT'D

Serenari, C. (2018, August 7). Making connections between red wolves and human well-being: Preparing for the next phase of red wolf recovery, Presented at the SCBI Red Wolf Recovery Workshop. Front Royal, VA.

Serenari, C. (2018, July 23-25). The social dimensions of red wolf recovery. Presented at the 2018 Red Wolf Species Survival Plan Meeting. Little Rock, AR.

Serenari, C., M.N. Peterson, P. Stowhas, T. Wallace, Y-F. Leung, & E. Sills. (2014, March). Panel Member for the Session Imagined Nature and Environmentalism in Patagonia. *Assessing cultural difference in the context of Patagonian large-scale private protected area conservation and development*. Paper presented at the Association of American Geographers Conference, Tampa, FL.

Serenari, C., M.N. Peterson, R. Bardon, & R. Brown. (2012, May). Invited Plenary Session: *The impacts of the Great Recession on state natural resource extension programs*. Paper presented at the 8th Association of Natural Resource Extension Professionals Conference, Hendersonville, NC.

Additional

Serenari, C., D. Cobb, & D. Peroff. (2017, September). *Using policy goals to evaluate large carnivore reintroduction: The case of the Red Wolf Recovery Program on the Albemarle Peninsula, North Carolina*. Paper presented at the 2017 Pathways Conference, Estes Park, CO.

Serenari, C., J. Shaw, R. Myers, & D. Cobb. (2017, September). *Using choice experiments to inform changes to deer hunting seasons*. Paper presented at the 2017 Pathways Conference, Estes Park, CO.

Clark, K. E., Cupp, K., Phelps, C. L., Peterson, M. N., Stevenson, K. T., & **Serenari, C.** (2017, June). *Evaluating the household dynamics of wildlife value orientations*. Presentation at the 2017 International Symposium on Society and Resource Management. Umeå, Sweden.

Serenari, C. (2016, October). *The sociopolitical dimensions of red wolf and coyote management: The case from the Albemarle Peninsula, North Carolina*. Paper presented at the proceedings of the 23rd Annual Meeting of The Wildlife Society, Raleigh, NC.

Burke, C.R., M.N. Peterson, C.E. Moorman, D.T. Sawyer, **C. Serenari,** R.K. Meentemeyer, & C.S. DePerno. (2016, October). *Predicting private landowner hunting access decisions: Implications for hunter density and distribution*. Paper presented at the proceedings of the 23rd Annual Meeting of The Wildlife Society, Raleigh, NC.

Drake, M.D., E. H. Griffith, C.E. Moorman, C.S. DePerno, C. Olfenbuttel, **C. Serenari,** & M.N. Peterson. (2016, October). *Urbanites, urban hunters, and urban coyotes: Differing perceptions of carnivores in urban areas*. Paper presented at the Proceedings of the 23rd Annual meeting of The Wildlife Society, Raleigh, NC.

Valdez, R. X, M. Drake, C. Burke, N. Peterson, **C. Serenari,** & A. Howell. (2016, October). *Who wants more development? Predicting anglers' preferences for developed fishing sites*. Paper presented at the Proceedings of the 23rd Annual Meeting of The Wildlife Society, Raleigh, NC.

PROFESSIONAL PRESENTATIONS AND POSTERS CONT'D

Bogges, M., M. Turner, M. Drake, N. Peterson, C. Serenari, & C. Olfenbittel. (2016, October). *Varying coyote perceptions within the hunting community*. Poster presented at the Proceedings of the 23rd Annual Meeting of The Wildlife Society, Raleigh, NC.

Singh, D., F. Cabbage, N. Peterson, M. Lovejoy, J. Pope, S. Jervis, C. Serenari, A. Dube, & B. Hays. (2016, April). *A certainty program framework for market based conservation of longleaf pine conservation*. Paper presented at the 2016 Meeting of the International Society of Forest Resource Economics, Raleigh, NC.

Serenari, C. & R. Reitz. (2015, November). *Acquiring human dimensions information: Descriptions of qualitative and quantitative methods in a digital age*. Presented at the 69th Annual Conference of the Southeastern Association of Fish and Wildlife Agencies, Asheville, NC.

Burke, C., M.N. Peterson, C. Moorman, C. DePerno, D. Sawyer, & C. Serenari. (2015, November). *Predicting available hunting land and hunter density and distribution in North Carolina*. Poster presented at the 69th Annual Conference of the Southeastern Association of Fish and Wildlife Agencies, Asheville, NC.

Drake, M., M.N. Peterson, C. Moorman, C. DePerno, C. Olfenbittel, & C. Serenari. (2015, November). *Co-urbanization of humans and coyotes*. Paper presented at the 69th Annual Conference of the Southeastern Association of Fish and Wildlife Agencies. Asheville, NC.

Serenari, C. & M.N. Peterson. (2015, June). *Why North Carolina hunters and anglers illegally take wildlife: A sociopolitical perspective*. Paper presented at the 21st International Symposium on Society and Resource Management (ISSRM). Charleston, SC.

Serenari, C., M.N. Peterson, P. Stowhas, & T. Wallace. (2014, March). *Assessing the impacts of private protected area governance, conservation, and development on human wellbeing: Three cases from Los Rios, Chile*. Poster presented at the NCSU Graduate Student Research Symposium, Raleigh, NC.

Serenari, C., M.N. Peterson, P. Stowhas, & T. Wallace. (2014, February/March). *An alternative to mainstream conservation and development? The social impacts of large-scale privately owned protected areas in Los Rios, Chile*. Paper presented at the Dimensions of Political Ecology Conference, Lexington, KY.

Serenari, C., K. Bosak, & A. Attarian. (2012, March). *Cross-cultural efficacy of American low impact programs: A comparison of Garhwal guide beliefs and American outdoor travel norms*. Poster presented at the 72nd Annual Meeting of the Society for Applied Anthropology, Baltimore, MD.

Serenari, C., A. Attarian, and Y-F. Leung. (2010, February). *Understanding environmentally significant behavior among guides in Garhwal Himalaya: An exploratory study of whitewater and trekking guides*. Paper presented at the 32nd Annual Southeastern Recreation Research Conference, Greenville, SC.

OUTREACH

*Presented by Colleague

Shaw, J.*, **C. Serenari**, D. Cobb, & R. Myers. "2017 Deer Forums." Results from multi-year biological and social science research projects and their combined implications for deer management in North Carolina. Presented to audiences in nine deer management districts across the state in May and June.

Serenari, C., J. Pope*, M.N. Peterson, and F. Cubbage. "Market-based conservation initiative-Conservation Innovation Grant: Conservation credit supply." Cape Fear Arch Meeting, Jones Lake State Park, NC, August 20, 2014.

Peterson, M.N.*, D. Fielding, **C. Serenari**, F. Cubbage, C. Moorman, S. Moore, & D. Hazel. "Perceptions of biomass harvesting among stakeholders in the southeast." NCSU Extension Webinar, 2014.

RESEARCH EXPERIENCE

Human Dimensions Specialist, October 2014-August 2018

North Carolina Wildlife Resources Commission (WRC)

Charged with designing and administering all human dimensions research involving humans and wildlife in the state; Example projects include a mixed-method study of 5-county citizen perspectives about red wolves and coyotes and a county-level study of hunters' decision-making about altered deer seasons; Provide social science expertise for WRC leadership; Serve as technical expert on NCSU graduate student-WRC projects, as well as for USFWS, SECAS, and AFWA projects; Collaborate with NCSU Fish and Wildlife faculty on service-learning projects for undergraduates; Supervise field research assistants.

Research Assistant, January 2014-August 2014

North Carolina State University

Assisted on USDA Conservation Innovation Grant to develop an ecosystem exchange system framework for species mitigation with an emphasis on market-based conservation in North Carolina.

PI, May 2013-August 2013

Led fieldwork at three sites in Los Rios, Chile on the local effects of large-scale private protected areas. Directed team of (2) field research assistants and (5) transcribers

Co-PI, August 2012-May 2013

Conducted Tamango National Reserve visitor study for Chilean forest service. Collaborated with resident researcher at El Centro de Investigación en Ecosistemas de la Patagonia in Aysén (Region XI)

USDA National Needs Fellow, August 2012-August 2013

North Carolina State University

Led data collection and analysis for woody biomass harvesting guidelines study, collecting the perspectives of over 2000 forest professionals and landowners in the southeast U.S.

Co-PI, IMAGINE Research Abroad Program, South Africa, May 2012-June 2012

North Carolina State University

Co-led team of students and faculty from U.S. and South Africa to collect data on perceptions of traditional and formal water governance in HaMakuya, South Africa

RESEARCH EXPERIENCE CONT'D

Research Assistant, January 2012-August 2012

North Carolina State University

Assisted with: preparation and roll out of a NSF and Joint Fire Science Program project on relational risk assessment and management; USFS post-fire research framework and protocol development; data collection for the Regional Readiness Cooperative prescribed fire project to restore over 5 million acres of longleaf pine forests; data collector for North Carolina environmental education plan survey

Research Assistant, August 2009-May 2011

North Carolina State University, Parks, Recreation, and Tourism Management

Assisted with System for Observing Play and Leisure Activity in Youth (SOPLAY) and the National Hockey League's Hockey is for Everyone programs. Duties included data entry and focus group transcribing. Also charged with data collection for middle school joint-use study

Graduate Assistant/Technical Consultant, August 2009-May 2010

North Carolina State University, Parks, Recreation, and Tourism Management

Served as the database consultant for 50 states participating in a state park director's annual information exchange funded by the National Association of State Park Directors; prepared and distributed the 2010 annual report

GRANTS

Funded

- Texas State University Research Enhancement Program grant: Mapping Micro-Level Decision Making about Alligator Management in North Carolina (\$8,000)
- Texas Parks and Wildlife Conservation License Plate grant: *Investigating Determinants Influencing Recruitment into Houston Toad Safe Harbor Agreements* (\$29,137)
- NC Deer Hunter Survey (W72, 106,514)
- Social Dimensions of Canids (W66, \$177,637)
- Tourism Cares/NTA Luray Caverns Graduate Research Grant, 2013, \$3000
- Food and Agriculture International Dissertation Research Travel Grant, \$7000
- American Alpine Club Research Grant, 2013, \$780
- Laarman International Gift Fund, 2013, \$2500
- Sawtooth Software Research Grant (co-authored with Diane Cooper Fielding), 2012, ~\$5000
- Laarman International Gift Fund (co-authored with Brian Bulla), 2012, \$5000
- American Alpine Club Research Grant, 2009, \$1800
- College of Natural Resource Professional Development Grant (co-authored with Dr. Aram Attarian), 2009, \$3800

In Review

- US Fish and Wildlife Service-Asian Elephant Conservation: Assessing village and institutional capacity to reduce human-Bornean elephant conflict in Sabah, Malaysia (\$75,759)
- Sea World – Busch Gardens Conservation Fund: Improving Rescue and Conservation of Bornean Elephants in Sabah, Malaysia (\$28,744)

TEACHING EXPERIENCE

Guest Lecture

Texas State University
BIO4220 *Natural History of Vertebrates* (October 23, 2018)

Instructor

North Carolina State University
Co-Instructor of record for FW 411/511 (Human Dimensions of Wildlife and Fisheries, Spring 2016)

Guest Lecturer

Wildlife Conservation in North Carolina: A Governance Perspective (Appalachian State University, PS5675, October 2nd, 2017)

Social Dynamics of Canids on the Albemarle Peninsula (NCSU, AES 495, February 18th, 2016)

Wildlife, Culture, and Tourism (NCSU ANT433/533, November 10th, 2015)

The Human Face of Private Conservation (NCSU FER Seminar; April 15th, 2015)

Human Dimensions of Hunting and Angling in North Carolina (NCSU FW 411/511; January 22nd, 2015)

Social Impacts of Tourism Development and Private Conservation in South, Chile (NCSU ANT 433/533; April 16th, 2014)

Teaching Assistant

North Carolina State University

NR571: Current Issues in Natural Resource Policy (Fall 2013)

ET455: Adaptive Management and Governance (Fall 2012, Spring 2013)

Shared-duty instructor/TA for PRT380 (Evaluation and Analysis for Undergraduates) (Fall 2011) and PRT-375 (Internship Orientation) (Spring 2012)

Instructor

North Carolina State University

Instructor of record for (3) semesters of PRT 380 (Evaluation and Analysis for Undergraduates) (Fall 2010, Spring 2011, Summer II 2011)

Supervised Teacher, August 2009-December 2009

North Carolina State University

Responsible for assisting curriculum development, grading, preparation, and teaching of lectures on outdoor adventure programming (PRT215, Principles and Practices of Outdoor Leadership).

ADVISING/MENTORING

Thesis Committee Member

Candice M. Rodriguez, Texas State University

- *Stomach content analysis of the invasive small Indian mongoose (Herpestes auropunctatus) from Puerto Rico (Master's thesis, November 2018)*

Conner R. Burke, North Carolina State University

- *Predicting available hunting land and hunter density and distribution (Master's thesis, May 2016)*

ADVISING/MENTORING CONT'D

Adjunct Professor or Consultant

East Carolina University

- *Demystifying the Huntress: Exploring women hunters in eastern North Carolina* (Master's thesis)

North Carolina State University

- *Human dimensions of coyote management in human-dominated environments* (Master's thesis)
- *Minority hunter and angler retention and recruitment* (service-learning project collaboration between WRC and NCSU Human Dimensions of Wildlife Management Class, FW 411/511)

Tamango National Reserve, Chile project, Fall 2012-Spring 2013

Mentored German Master's student in design and completion of three-month study of visitors to TNR.

Teaching Assistant, January 2012-May 2012

North Carolina State University

PRT371, Internship Orientation

Graduate Assistant, August 2008-May 2009

North Carolina State University

Supervised and mentored students leading outdoor trips for the Outdoor Adventures Program

REVIEW AND EDITORIAL SERVICE

Sustainability

Journal of Wildlife Management

Journal of Tourism and Cultural Change

Wildlife Society Bulletin

Journal of Sustainable Tourism

Journal of Outdoor Recreation Education and Leadership, 2009-2010, Assistant Editor

Biological Conservation

Journal of Rural Studies

Human Dimensions of Wildlife

Human Ecology Review

Leisure Sciences

Book Chapter: *Tourism Experiences & Animal Consumption: Contested Values, Morality, & Ethics*

OTHER SERVICE

- American Wolf Foundation – Advisory Board Member (2018- current)
- Southeast Conservation Adaptation Strategy leadership team (invited guest)
- Association of Fish & Wildlife Agencies – Feral and Free-ranging Cat Working Group
- U.S. Fish and Wildlife Service - Red Wolf Recovery Team (2015-2016)
- 69th Annual Conference of the Southeastern Association of Fish and Wildlife Agencies (human dimensions symposium co-chair, November 2, 2015)
- 7th Annual ISTF Spring Symposium: Investment and International Land Deals in the Tropics: Who Owns the Forests? (moderator, April 17, 2015)

SERVICE CONT'D

- USFS/NCSU Forest Ecosystem Services Valuation Stakeholder Meeting (facilitator, February 2014)
- NCSU FER Distinguished Speaker Search Committee (2013)
- NCSU CNR Strategic Planning Sub-Committee, Student Rep. (2013)
- NC Food Bank (volunteer, 2012)
- NCSU FER Graduate Student Association (faculty-grad student rep, 2012-2013)
- NCSU PRTM (faculty-grad student rep, 2009-2010)

AFFILIATIONS

The Wildlife Society; American Association for the Advancement of Science

INTERNATIONAL EXPERIENCE

Doctoral Dissertation Research, Chile, May-August, 2013

IMAGINE Research Abroad Program, South Africa, May 2012-June 2012

Master's Thesis Research, India, May 2009-July 2009

Study/Research Abroad, India, May 2009-June 2009; South Africa, May-June 2012

AWARDS & HONORS

Graduate:

- 21st International Symposium on Society and Research Management (ISSRM) Early Career Scholarship, 2015, \$475.
- University Graduate Student Association Award for Conferences, \$1275
- FER–Arthur W. Cooper Graduate Fellowship for Excellence in Social Sciences, 2013-2014
- NCSU Graduate Student Research Symposium, March 2014, FER Nomination
- NC Wildlife Federation Scholarship, 2013, \$1000
- Xi Sigma Pi, Forestry National Honor Society, 2013
- USDA Food & Agricultural Sciences National Needs Fellowship, 2012-2013
- NCSU Study Abroad Office Scholarship, 2012, \$1000
- NCSU Africana Studies Travel Scholarship, 2012, \$500
- Association of Natural Resource Extension Professionals conference Travel Scholarship, 2012, \$1000
- NSCU FER International Research Scholarship, 2012, \$500
- NCSU CNR International Research Scholarship, 2012, \$250
- Sigma Iota Rho-Honor Society for International Studies, inducted 2010

Others:

- Assoc. for Outdoor Recreation & Education Prof. Develop. Scholarship, 2008, \$500
- Mountain Hardwear Mission Project Grand Prize Winner (writing contest), 2007, \$5600
- National Naval Medical Center Civilian Award of Excellence, 2003, monetary award
- Environmental Health Outstanding Senior Award, BGSU, 2000

TRAINING

Allies (2018); ArcGIS 1 (2017); Working in Teams (2006)