

STACY R. COTEY

College of Forest Resources and Environmental Science
Michigan Technological University
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EDUCATION

PhD Candidate, Michigan Technological University, currently enrolled
MS Biology, Northern Michigan University, August 1998
BA Biology (Zoology concentration), University of Northern Iowa, May 1993
BA Art (Photography & Drawing emphasis), University of Northern Iowa, May 1993

PROFESSIONAL EXPERIENCE

Academic Advisor/Instructor, 2016-present, Forest Resources & Environmental Science, Michigan Technological University. Houghton, MI

Workshop Coordinator, 2016-17, Science and Management of Ash After Emerald Ash Borer, Michigan Technological University, Houghton, MI and United States Department of Agriculture Forest Service, Grand Rapids, MN

Academic Advisor/ Instructor/Coordinator of Learning Center-Biological Sciences and University Director of Pre-Health Professions Studies, 2011-2016, Michigan Technological University, Houghton, MI

Academic Advisor/ Instructor/Coordinator of Learning Center, Biological Sciences, 2008-2011, Michigan Technological University, Houghton, MI

Environmental Science Department Chair/Instructor, 2007-2008, Keweenaw Bay Ojibwa Community College, Baraga, MI

Director of Outreach and Development, 2005-2007, School of Forest Resources and Environmental Science, Michigan Technological University, Houghton, MI

Great Explorations Site Coordinator, 2003-2005 Lake Linden-Hubbell Schools, Lake Linden, MI

Biological Field Technician and Researcher, 2003, JZ Environmental, Metamora, MI

Hamilton Creek Watershed Manager, 2000-2003, Dickinson Conservation District, Kingsford, MI

Biology and Environmental Science Instructor, 1998-2000, Ridgewater College, Willmar, MN

Advanced Environmental Biology Instructor, 1998. Upward Bound Regional Mathematics and Science Summer Program, Marquette, MI

Science Lab Director and Instructor, 1998, Clear Lake Environmental Center, Delta-Schoolcraft Intermediate School District, Shingleton, MI

Principal Investigator-Woodland Hawk Study, 1996-1998, Hiawatha National Forest, Munising, MI

Graduate Teaching Assistant, 1996-1998, Northern Michigan University. Marquette, MI

Park Ranger, 1995, Voyageurs National Park. International Falls, MN

Resource Assistant, 1993 & 1994, Isle Royale National Park, Houghton, MI

CURRENT RESEARCH PROJECTS

Meta-analysis of North American River Otter (*Lontra canadensis*) Habitat Characteristics with Audrey Mayer, Michigan Technological University

Role of Riparian Forests and Surrounding Matrix in Functional Connectivity of Northern American Otter (*Lontra canadensis*) Populations with Audrey Mayer, Michigan Technological University and Michigan Department of Natural Resources

Prevalence and Spatial Distribution of *Toxoplasma gondii* and *Sarcocystis* in North American River Otter (*Lontra canadensis*) in the Upper Peninsula, MI with Mason Reichard's lab, Oklahoma State University and Michigan Department of Natural Resources

Identification of Individual Otters with Snow eDNA with Animal Welfare Institute and Ottawa National Forest

Effect of Barrier Removal and Brook Trout Suppression on Westslope Cutthroat Trout (*Onchorynchus clarkii*) Demographics and Genetic Diversity with Erin Landguth, Casey Day & Zac Robinson, University of Montana; Marie Josee Fortin, University of Toronto; Ian Gazeley, University of Lethbridge; Dominique Alo, Pontificia Universidad Catolica de Chile

TEACHING EXPERIENCE

Michigan Technological University

Landscape Ecology (lecture) Spring 2019-present

Wildlife Ecology (lecture) Fall 2017-present

Introduction to the Health Professions (first-year seminar) Fall 2013-Fall 2015

Botany (lecture, instruct lab TAs, and co-supervise greenhouse) Spring 2009, 2012-2016

Principles of Biology (lecture and instruct lab TAs) Fall 2010 & 2011

Introduction to Biological Sciences (first year seminar) Fall 2009-Fall 2015

Special Topics in Botany (directed study and lab) Summer 2009

Biological Sciences Teaching Experience (directed study) Spring 2009, 2012-2016

Keweenaw Bay Ojibwa Community College

Ornithology (lectures and lab/field) Summer 2008

Ecology (lectures and lab/field) Spring 2008

Anatomy and Physiology (lecture and lab) Spring 2008

Conservation Biology (lecture) Fall 2007

Introduction to Biology (lecture and lab) Fall 2007

Dendrology (lecture and lab/field) Fall 2007

Ridgewater College

Environmental Science (2 lectures and 4 labs/field per semester) Fall and Spring 1998-2000

Conservation of Natural Resources (lecture and 3 labs/field per semester) Fall 1998-2000

Introductory Biology (lecture and 3 labs per semester) Fall and Spring 1998-2000, Spring session was geared toward students in Veterinarian Technician program

Northern Michigan University

Advanced Environmental Science (lecture and lab/field) Summer 1998

Ecology Lab (3 labs/field per semester) Fall 1997

Field Experience: Raptor Ecology (field) Summer 1996 -1997

Biology I Lab (3 labs per semester) Fall 1996

Delta-Schoolcraft Intermediate School District-Clear Lake Environmental Center

Lake Studies (field) Summer 1998

Herpetology (field) Summer 1998

ACADEMIC SERVICE

University

Michigan Tech University Academic Advising Council 2018-present

Treehouse Learning Community Advisor 2017-present

Michigan Tech Student Chapter of The Wildlife Society Co-Advisor 2016-2019

Michigan Tech Biochemistry Club Advisor 2016-2017

General Education Science and Mathematics Assessment Committee 2015-2017

Medical Careers Week-Medical Professions Co-Coordinator 2015-2016

Lean Advising Website Development Project 2014-2015

MSU College of Human Medicine Lecture Series Campus Coordinator 2013-2016

UP Physicians Conference-Michigan Tech Campus Coordinator 2013-2016

Transfer Services Advisory Committee 2012

Aquaponics Enterprise Mentor 2012

My Michigan Tech Incoming Student Portal (LUMINAS) Advisory Committee 2012

Dean of Students Academic Policy Review Committee 2012

MSU College of Human Medicine Early Assurance Campus Coordinator 2011-2016

Wayne State MedStart Campus Coordinator 2011-2016

Medical Alumni and Kathy Jean Jensen Scholarship Coordinator 2011-2016

Coordinator of Campus Visits for Health School Admissions 2011-2016

Phi Sigma Career Blitz Presenter 2009-2016

Michigan Tech Leading Scholars Selection Committee 2009-2012

Michigan Tech Degree Audit Reporting System Committee 2008-2010

Reading As Inquiry Group Facilitator 2008-2011, 2013-present

Michigan Garden Clubs Scholarship-MTU Campus Coordinator 2008-present

Ridgewater College Student Success Committee 1998-2000

Ridgewater College Scholarship Committee 1998-2000

Academic Unit

CFRES Curriculum Committee 2016-present

Biological Sciences Department Curriculum Committee 2008-2016

Biological Sciences Department Scholarship Committee 2008-2016

Biological Sciences Learning Center Coordinator 2008-2016

Bioathlon Teacher Workshops 2005-2007 and 2008-2016

Michigan Tech Fall Departmental Open House Coordinator, 2005-2007, 2008-2016

Michigan Tech Preview Day Departmental Coordinator 2005-2007, 2008-2016

Keweenaw Bay Ojibwa Community College Curriculum Committee 2007-2008

Ridgewater College Biological Sciences Advisor (50-60 students) 1998-2000

AWARDED GRANTS

Cotey, S.R. 2018-19, Keeping "Track" of North American River Otters, Christine Stevens Wildlife Award, \$22,500

Cotey, S.R., Mayer, A.L. 2018-2021. Role of Riparian Forests and Surrounding Matrix in Functional Connectivity of North American River Otter (*Lontra canadensis*) McIntire-Stennis, \$50,000

Cotey, S.R. 2013. Analysis of Graph-Based Connectivity Models as a Possible Method of Assessing Watershed Health, NASA-Michigan Space Grant Consortium Fellowship, \$5000

Cotey, S.R. 2012. Wildlife Use of Road-Stream Crossings, Ecosystem Science Center Graduate Research Grant, \$1000.

Cotey, S.R. 2012, Smithsonian Noninvasive Genetics Workshop, Ecosystem Science Center Graduate Training Grant \$1500

Cotey, S.R. 2010. Document Camera and Projector for Learning Center, Center for Teaching, Learning and Faculty Dev.-MTU, \$750

Cotey, S.R. 2007. Environmental Science Curriculum Improvement Grant, PETE Tribal College Env. Science Tech. Assistance \$2000

Cotey, S.R. 2003-2006. Implementation of Best Management Practices in Hamilton Creek Watershed, Clean Michigan Initiative Non-Point Pollution Grant, \$450,000

Cotey, S.R. 2003-2006. Implementation of Best Management Practices, Clean Michigan Initiative High Quality Waters, \$105,000.

Cotey, S.R. 2002. Hamilton Creek Stream Clean-up, Volunteer Stream Clean-up Grant, \$2900

Cotey, S.R. 2002. Wildlife Habitat Improvement Projects in the Hamilton Creek Watershed, UP Sustainable Forestry and Wildlife Fund, \$6500

Cotey, S.R. 2002. Lake Mary Native Planting Demonstration Area, MI Department of Agriculture, \$9100

Cotey, S.R. 1999. Water Monitoring of the Minnesota River, Ridgewater Excellence in Education, \$400

Cotey, S.R. 1997. Woodland Raptor Research Project, NMU Excellence in Education, \$1000

Cotey, S.R. 1997. Woodland Raptor Research Project. Michigan Nongame Wildlife Fund, \$3500

PUBLICATIONS

Cotey, S.R. 2003. Hamilton Creek Watershed Management Plan. 156 pp. + Appendices

Cotey, S.R. 2000-2003. Wave Action: Hamilton Creek Watershed Quarterly Newsletter

PRESENTATIONS

Cotey, S.R. , Scimeca, R. Chang, L. Will, E., Ott-Conn, C. and Reichard, M. 2020. *Toxoplasma gondii* prevalence and partial genotypes of North American River Otter (*Lontra canadensis*) in the Upper Peninsula, Michigan. American Association of Veterinary Pathologists Annual Conference, Virtual.

Scimeca, R., Cotey, S., Chang, L., Will, E., and Reichard, M. 2020. Prevalence of *Sarcosystis spp.* in North American river otters (*Lontra canadensis*) collected in Michigan. American Association of Veterinary Pathologists Annual Conference, Virtual.

Sanders, T., Prentiss, N., Cotey, S., Koch, R., Fairbanks, W., Intersano, M., La Rosa, G., Pozio, E. and Reichard, M. 2020. Detection of *Trichinella murrelli* and *T. pseudospiralis* in bobcats (*Lynx rufus*) from Oklahoma. American Association of Veterinary Pathologists Annual Conference, Virtual.

Cotey, S.R. 2020. Landscape Restoration. Guest lecture in FW5115 Restoration Ecology, Michigan Technological University, Houghton, MI*

Cotey, S.R. 2019. Modern Agriculture Part 1 & 2. Guest lectures in FW3116 Ethnobotany, Michigan Technological University, Houghton, MI*

Cotey, S.R. 2019. Keeping track of otters. Ottawa National Forest. Watersmeet, MI.*

Chang, L., R.C. Scimeca, S.R. Cotey, and M.V. Reichard. 2019. Molecular detection of *Toxoplasma gondii* in North American River Otters (*Lontra canadensis*) from Michigan. National Veterinary Scholars Symposium, Tufts University. North Grafton, MA

Cotey, S.R. 2018. Conservation Biology of Mustelids. Guest lecture in FW3410 Conservation Biology, Michigan Technological University, Houghton, MI*

Cotey, S.R. 2018. Importance of Landscape Ecology in Restoration Processes. Guest lecture in FW5115 Restoration Ecology, Michigan Technological University, Houghton, MI*

Cotey, S.R. 2016. Ethnobotany: How People Use Plants. Upper Peninsula Bioathlon High School Teacher Workshop (full-day), Michigan Technological University, Houghton, MI*

Cotey, S.R. 2015. On the Move-Animal Migrations. Upper Peninsula Bioathlon High School Teacher Workshop (full-day), Michigan Technological University, Houghton, MI*

Cotey, S.R. 2014. Fungus Among Us. Upper Peninsula Bioathlon High School Teacher Workshop (full-day), Michigan Technological University, Houghton, MI*

Cotey, S.R. 2013. Climate Change and the Great Lakes. Upper Peninsula Bioathlon High School Teacher Workshop (full-day), Michigan Technological University, Houghton, MI*

Cotey, S.R. 2012. Biomimicry. Upper Peninsula Bioathlon High School Teacher Workshop (full-day), Michigan Technological University, Houghton, MI*

Cotey, S.R. and Mayer, A.L. 2012. Connectivity of the landscape for northern river otter in the western Upper Peninsula of Michigan, Student Research In Progress Poster Session, Wildlife Society Conference. Portland, OR

Cotey, S. R. 2012. Connectivity of the Landscape for River Otters. Smithsonian Institute, Front Royal, VA*

Cotey, S.R. 2011. Pollinator Ecology. 2011. Upper Peninsula Bioathlon High School Teacher Workshop (full-day), Michigan Technological University, Houghton, MI*

Cotey, S.R. 2010. Keeping Track of Wildlife. Upper Peninsula Bioathlon High School Teacher Workshop (full-day), Michigan Technological University, Houghton, MI*

Cotey, S.R. 2009. Nutrient Cycling in Aquatic Systems. Upper Peninsula Bioathlon High School Teacher Workshop (full-day), Michigan Technological University, Houghton, MI*

Cotey, S.R. 2007. Forest Invaders. Michigan Science Teachers Association. Grand Rapids, MI

Cotey, S.R. 2006. Monitoring School Forests. Michigan Science Teachers Association. Lansing, MI

Cotey, S.R. 2005. Hamilton Creek Watershed: A Case Study in Partnerships. Finding the Balance Between Development and Natural Resources in the Keweenaw. Great Lakes National Wildlife Federation. Copper Harbor, MI.*

Cotey, S.R. 2002. The Beauty of Buffers. Michigan Lakes and Streams Association, Iron River, MI.*

* = invited

STUDENT MENTORING

Undergraduate Independent Study

Jacob DeVries, 2019, Otter Tracking

Marisa DeMario, 2019, Otter Tracking

Undergraduate Teaching Assistantships

Ande Norton, 2016, Botany Lab

Thomas Dixon, 2014, 2015 & 2016, Botany Lab

Kaitlyn Kogut 2015 & 2016, Botany Lab

Amber Peabody, 2015, Botany Lab

Olivia Olsen, 2013, Botany Lab

Mary Wichuta 2014, 2015 & 2016, Botany Lab

Allison Wysocki, 2014, 2015 & 2016 Botany Lab

Anna Buckardt, 2013, Botany Lab

Jade Ortiz, 2013, Botany Lab

Joshua Papacek, 2013, Botany Lab

Holly Loper, 2013, Botany Lab

Marc Madigan, 2011, Principles of Biology Lab

Kelly Gunns, 2009, Botany Lab

Sally Sanderson, 2009, Botany Lab

Dave Fenlon, 2009, Botany Lab

Aaron Wuori, 2009, Botany Lab

Jill Sekely, 2009, Botany Lab

Paige Beilfuss, 2009, Botany Lab

Ashley Maney, 2009, Botany Lab

Lauren Dedow, 2009, Botany Lab

Heather Vingness, 2009, Botany Lab

Kayla Griffiths, 2009, Botany Lab

Chelsea Lurn, 2009, Botany Lab

Kate Pote, 2009, Botany Lab

Biological Sciences Learning Center Coaches

Morgan Charbonneau 2016

Maya Braden 2016

Ciera Danen 2016

Dane Wuori 2016

Elizabeth Scaife 2016

Joshua Kohlhase 2016

Elizabeth Champagne 2015-2016

Miranda Sauter 2015-2016

Alexander McQueeney 2016

Virginia VanVianen 2015-2016

Ashley Veale 2015-2016

Ian Greenlund 2014-2016
Thomas Dixon 2015-2016
Caycie Bray 2013-2016
Alex McQueeney 2014-2016
Madelyn Wohlfeil 2014-2016
Courtney DeCramer 2014-2016
Amber Peabody 2014-2016
Brittany Erickson 2014-2015
Rebecca Mills 2013-2015
Valerie Taglione 2013-2015
Abigail McCall 2013-2015
Jade Ortiz 2013-2015
Danna Kasom 2012-2014
Kevin Clover 2012-2013
Nico DelPiccolo 2011-2013
Joshua Papacek 2011-2013
Julie Dau 2011-2013
Andrew Pap 2011-2013
Phillip Mercier 2009-2012
Erin Lehnert 2009-2012
Faith Lambert 2009-2012
Jessi Thoresen 2009-2012
Samantha Kerlin 2009-2012
Emily Bushie 2009-2011
Dave Fenlon 2008-2011
Mary Kennedy 2009-2011
Andrea Wodzinski 2009-2011
Kate Pote 2008-2011
Paul Valencia 2008-2011
Kelsey Cox 2008-2010
Scott Michels 2008-2009

Graduate Independent Study

Jeffrey Selan, 2019, Otter Tracking

Graduate Committee

Diane Nelson, 2016, M.S. Biological Sciences

Graduate Teaching Assistantships

Christopher Adams, 2016, Botany Lab
Jeffrey Kiiskila, 2015 & 2016, Botany Lab
Ramana Pidatala, 2014, Botany Lab
Alex Bales, 2014 & 2015, Botany Lab
Jamie Olson, 2013, Botany Lab
Martin Hobmeier, 2013, Botany Lab
Tony Matthys, 2012, Botany Lab
Ashley Coble, 2012, Botany Lab
Srinivasa Sripathi, 2011, Principles of Biology Lab
Claire Doskey, 2010, Principles of Biology Lab
Kefeng Li, 2009, Botany Lab; 2010 & 2011, Principles of Biology Lab
Stacey Frankenstein-Markon, 2009, Botany Lab

PROFESSIONAL MEMBERSHIPS AND SERVICE

American Association of Veterinary Pathologists 2020-present
American Society of Mammalogists 2020-present
International Association for Landscape Ecology 2020-present
Great Lakes Restoration Initiative Terrestrial Connectivity Working Group 2019-present
Martes Working Group 2018-present; Newsletter Co-editor 2019-present
Partnering for Watershed Restoration Steering Committee 2016-present
The Wildlife Society (Spatial Ecology/Telemetry & Molecular Ecology Working Groups) 2012-present

TRAINING

Computers and software

Business: Windows (Word, Publisher, Excel); Mac (Keynote, Numbers, Pages); Google Suite (Docs, Forms, Sheets, Sites, Meet), Zoom, GotoMeeting, Trello
Statistical: Minitab, SAS, R Studio, R-packages: metafor, adehabitatHR, ggplot
Spatial and Network Analysis: basic ArcInfo, ArcGIS, ArcMap, QGIS, GPS, Fragstats, Maxent, Conefor Sensinode, igraph, Structure
Content Management Systems: Blackboard, CANVAS, OUCampus
Academic Analysis Software: DARS, Banner, Webfocus
Social Media: Facebook, Twitter, Instagram, Wordpress, YouTube
Creative Software: Photoshop, Lightroom, iMovie

Creative

Photography (digital, SLR and 4x5 cameras, black/white & color printing processes)
Graphic design (newsletters, brochures, websites, interpretive displays, signs)
SciFund Challenge Video Course

Education and Pedagogy

Project WET
Project Learning Tree
Project WOW
American Meteorological Society Ocean Studies Instructor Training
Michigan Tech Diversity Training
Quality Matters Teaching Online Training
Ecological Society of America 2020 Data Access and Inclusion Faculty Mentoring Network
Michigan Tech Creating Accessible Course Content

Genetics

George Mason/Smithsonian Non-invasive Genetic Techniques Workshop
University of Idaho-Landscape Genetics Course

Natural Resource Management

Forestry and wildlife management techniques
Operation of small motorboats, tractors, manual transmission, canoes, and kayaks
National Park Service Interpretation Training
Michigan Tech and National Park Service Defensive Driving Certification
Natural Resource Conservation Service Bioengineering Training
Michigan Department of Environmental Quality Soil and Sedimentation Training
Michigan State University (MSU) Watershed Management Course
University of Wisconsin Dam Decommissioning Workshop
US Department of Agriculture (USDA) Manure Management Training
MSU, MOSES, and USDA Sustainable Agriculture practices University of Indiana Fundraising School

