

# Drew M. Ballantyne

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## *Career Objectives*

Seeking a career opportunity where I can apply my academic training utilizing my diverse experience with natural resources, real estate, outdoor recreation, and golf, while contributing to the restoration, preservation, and conservation of various ecosystems, particularly northern forests and wetlands.

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## *Education*

Michigan Technological University, M.S. in Forest Science. December 2010.

Carthage College, B.S. in Environmental Science & Geography, minors in Biology & Chemistry. May 2008.

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## *Internships & Research Accomplishments*

**Michigan Technological University (MTU)**

Present

*Research Assistant*

- Floating fungal hyphae from soil samples
- Washing dishes for the lab
- Helping the lab with whatever they need
- Constructing probes for sapflow measurements

**Michigan Technological University (MTU)**

2009-2010

*Masters' Student*

- Investigating how long-term water table manipulations and short-term warming affect carbon cycling in a Great Lakes Peatland.
- Taking CO<sub>2</sub> (NEE, ER, and GEP) and CH<sub>4</sub> fluxes from our six research sites in the Seney National Wildlife Refuge.
- Downloading water table and soil temperature dataloggers.

**Kellogg Biological Field Station (MSU)**

Summer 2008

*Sustainability of Biofuels REU*

- Competitive undergraduate research experience (REU) working on biofuel sustainability.
- Analyzed the movement of water and nitrate through KBS soils: A tracer experiment and methods comparison. Used an ion chromatography, performed titrations, and cleaned lab equipment.

**Cedar Creek Natural History Area (UMN)**

Summer 2007

*Long Term Ecological Research Studies Project Team*

- Competitive undergraduate research experience (REU) working on long-term multi-investigator projects.
- Help setup various experiments, such as heating experiments, plot-by-plot experiments, collect samples, and record data for graduate students and post- docs.

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***Publications***

**Ballantyne, Drew M.,** Rodney A. Chimner, & John A. Hribljan. 2010. Long Term Water Table Manipulations on Great Lakes Peatland Carbon Fluxes. In preparation for Ecosystems.

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***Presentations***

**Ballantyne, Drew M. & Chimner, R.A.** 2010. The effects of long term water table manipulations on carbon fluxes at the Seney National Wildlife Refuge. Society of Wetland Scientists 31<sup>st</sup> Annual Meeting, Salt Lake City, Utah.

- Ballantyne, Drew M. & Chimner, R.A.** 2010. The effects of long term water table manipulations on the carbon fluxes from a Great Lakes Peatland. 2010 Wisconsin Wetlands Association Conference, Eau Claire, Wisconsin.
- Ballantyne, Drew M.** 2009. Do artificial water hazards on golf courses have as much biodiversity as natural wetlands? Michigan Technological University Graduate Seminar, Houghton, MI.
- Ballantyne, Drew M.** 2009. The effects of long term water table manipulations on carbon fluxes at the Seney National Wildlife Refuge. Michigan Technological University Graduate Seminar, Houghton, MI.
- Ballantyne, Drew M.** 2008. Roundtable presenter. Talked about whether wetlands are good or bad for climate change because of the methane emissions they emit to the atmosphere. Carthage College, Kenosha, Wisconsin.
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### ***Poster Presentations***

- Ballantyne, Drew M. & Chimner, R.A.** 2010. How do long-term water table manipulations affect carbon fluxes from a Great Lakes peatland? Center for Water & Society Poster Session. Michigan Technological University, Houghton, Michigan.
- Ballantyne, Drew M. & Chimner, R.A.** 2010. How do long-term water table manipulations affect carbon fluxes from a Great Lakes peatland? Graduate Research Colloquium. Michigan Technological University, Houghton, Michigan.
- Ballantyne, Drew M. & Chimner, R.A.** 2010. How do long-term water table manipulations affect carbon fluxes from a Great Lakes peatland? Ecosystem Science Center. Michigan Technological University, Houghton, Michigan.
- Ballantyne, Drew M. & Chimner, R.A.** 2009. How do changing water table levels and warming temperatures affect carbon fluxes from drained and undrained peatlands? Joint Meeting Society of Wetland Scientists 30<sup>th</sup> Annual Conference & Wisconsin Wetlands Association, Madison, Wisconsin.
- Ballantyne, Drew M. & Chimner, R.A.** 2009. How do changing water table levels and warming temperatures affect carbon fluxes from drained and undrained peatlands? Great Lakes Regional Biogeochemistry Symposium, W.K. Kellogg Biological Field Station, Hickory Corners, Michigan.

**Ballantyne, Drew M. & Chimner, R.A.** 2009. How do changing water table levels and warming temperatures affect carbon fluxes from drained and undrained peatlands? Center for Water & Society Poster Session, Michigan Technological University, Houghton, Michigan (**Third Place for Best Poster Presentation**).

**Ballantyne, Drew M., Bhardwaj, Ajay K., & Hamilton, Stephen.** 2008. Movement of water and nitrate through a sandy loam soil: A tracer experiment and methods comparison. W.K. Kellogg Biological Field Station Great Lakes Bioenergy Research Center Poster Session, Hickory Corners, Michigan.

**Ballantyne, Drew M., Gartner, Tracy, & Hegrenes, Scott.** 2007. Do artificial wetlands on golf courses have as much biodiversity as natural wetlands? American Waters Resource Association Conference, Brookfield Wisconsin.

**Ballantyne, Drew M., Gartner, Tracy, & Hegrenes, Scott.** 2007. Do artificial wetlands on golf courses have as much biodiversity as natural wetlands? 2008 Wisconsin Wetlands Association Conference, Oconomowoc, Wisconsin.

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### ***Awarded Travel Grants***

- 2010: North Central Chapter Society of Wetland Scientists **\$200** grant for travel to regional meeting (Wisconsin Wetlands Association).
- 2010: Michigan Technological University Ecosystem Research Center **\$500** grant funded for travel to 31<sup>st</sup> Annual Society of Wetland Scientists Conference.
- 2009: Michigan Technological University Ecosystem Research Center **\$500** grant funded for travel to 30<sup>th</sup> Annual Society of Wetland Scientists Conference.

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### ***Additional Activities, Awards, and Memberships***

Ecosystem Science Center Research Proposal Grant, **\$1,000**, Summer 2010.

Two-Year Graduate Student Assistantship at Michigan Technological University ~**\$36,000**, 2009-2010.

Wisconsin Wetlands Association Conference Registration Scholarship from Wisconsin Energy Corporation Foundation and The Nature Conservancy of Wisconsin, 2009, 2010, and 2011.

Member of (MTU's) Students for Environmental Sustainability, 2010-present

Member of the MTU Nordic Ski Club, 2009-present  
Member of MTU Graduate Seminar Committee, 2009-present  
President of the Michigan Technological University Chess Club, 2009-present  
Secretary of Society of Wetlands Scientists: Michigan Tech, 2009-present.  
Volunteer at the following golf courses working on the grounds crew & removing  
invasive species (Timberstone Golf Club, The Bull at Pinehurst Farms, Rainbow  
Springs Golf Club and others), 2009-present  
Remove invasive species & do other projects for homeowners, 2004-present  
Caddie at the Racine Country Club, 2002-present  
Carthage College Golf Team, 2005-2008  
Queckenstadt Academic Scholarship, Faculty Scholarship, and Tri-County Grant  
(\$7,000 a year), 2005-2008  
Bullmore Geography Department Scholarship (\$1000), 2006-2007  
Member of the Sierra Club, 2006-present  
Member of the Carthage Environmental Club, 2005-2008  
Member of the St. Catherine's Environmental Club, 2002-2004  
St. Catherine's High School Golf Team, 2001-2004

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### ***Global Learning/International Experiences***

<b>Global Learning</b>	<b>Geography and Biology of China</b>	J-Term 2008
	Traveled for a class on an intensive 30 day immersion to the Beijing, Shanghai, and other regions of China assessing the relationship with humans and their environment, cultural history, urban / rural economics and the subsequent agricultural and ecological impact.	
	<b>Geology of Scotland</b>	J-Term 2005
	Traveled to London, England and then Scotland, visiting castles and famous geological sites such as the angular unconformity rock structure James Hutton studied.	

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### ***References***

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