CANDICE M. MILLER

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Present Address

Oklahoma State University
Natural Resource Ecology and Management
008c Ag Hall
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Permanent Address

907 8th Avenue Northwest
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I. EDUCATION

- **Oklahoma State University, Stillwater, Oklahoma: 2010 – present**
  Degree: PhD
  Major: Natural Resource Ecology and Management-Fisheries Option
  Anticipated Graduation: May 2014
  Dissertation: TBA
  Advisor: Daniel E. Shoup, Ph.D.
- **Eastern Illinois University, Charleston, Illinois: 2008 – 2010**
  Degree: Master of Science
  Major: Biological Sciences
  Anticipated Graduation: May 2010
  Thesis: Population Demographics of Crappie in Illinois Reservoirs
  Advisor: Charles L. Pederson, Ph.D.
  Advisor: Robert E. Colombo, Ph.D.
- **University of North Dakota, Grand Forks, North Dakota: 2004 – 2007**
  Degree: Bachelor of Science
  Major: Fisheries and Wildlife Biology
  Advisor: Richard D. Crawford, Ph.D.

II. PROFESSIONAL EXPERIENCE

- *Graduate Teaching Assistant,* **Oklahoma State University: Stillwater, Oklahoma**
  August 2010 – present; *Supervisor:* **Daniel E. Shoup, Ph.D.,** Department of Natural Resource Ecology and Management
- *Graduate Research Assistant,* **Eastern Illinois University: Charleston, Illinois**
  August 2008 – 2010; *Supervisor:* **Charles L. Pederson, Ph.D.,** Department of Biological Sciences
- *Seasonal Fisheries Aide,* **North Dakota Game and Fish Department: Riverdale, North Dakota**
  May 2008 – August 2008; *Supervisor:* **Dave Fryda,** Missouri River System Fisheries Supervisor
- *Biological Aide,* **US Fish and Wildlife Service, Lake Ilo National Wildlife Refuge: Dunn Center, North Dakota**
  May 2007 – August 2007; *Supervisor:* **Cory Richardson,** Refuge Manager
- *Seasonal Wildlife Aide,* **North Dakota Game and Fish Department: Jamestown, North Dakota**
  May 2006 – August 2006; *Supervisor:* **Brian Kietzman**, Wildlife Resource Management Supervisor
- *Biological Aide,* **Idaho Department of Fish and Game, Sawtooth Fish Hatchery: Stanley, Idaho**
  May 2005 – August 2005; *Supervisor:* **Brent Snider,** Hatchery Manager
- *Volunteer,* **US Fish and Wildlife Service, Garrison Dam National Fish Hatchery: Riverdale, North Dakota**
  May 2004 – August 2004; *Supervisor:* **Rob Holm,** Project Leader

III. ORGANIZATIONS

- **American Fisheries Society:** 2008 – present
- **Oklahoma State University American Fisheries Society Subunit:** 2010 – present
- **Oklahoma State University NREM Graduate Student Organization:** 2010 – present

- **Eastern Illinois University Fish and Wildlife Ecology Club:** 2008 – present
    - President 2009 – present
- **Eastern Illinois University Biological Graduate Student Association:** 2008 – present
    - Vice President 2009 – present
    - Treasurer 2008 – 2009
- **University of North Dakota Wildlife Society:** 2004 – 2007
    - Secretary 2005 – 2006

IV. PUBLICATIONS

Colombo, R.E., Phelps, Q.E., **Miller, C.M.**, Garvey, J.E., Heidinger, R.C., and Richards, N.S. 2010. Comparison of Channel Catfish Age Estimates and Resulting Population Demographics Using Two Common Structures. North American Journal of Fisheries Management.

Colombo, R.E., **Miller, C.M.**, Phelps, Q.E., Garvey, J.E., and Heidinger, R.C. (in review). Predicting the Impact of Harvest on the Yield of Channel and Flathead Catfish in the Wabash Using Population Modeling.

Colombo, R.E., Phelps, Q.E., **Miller, C.M.**, Garvey, J.E., and Heidinger, R.C. (in preparation). The Effect of a Fisheries Reserve on the Demographics of Catfish Populations in a Large Unimpounded River.

V. PRESENTATIONS

Miller, C.M., Colombo, R.E. and Pederson, C.L. 2010. Comparative Fish Assemblages of the Lake Decatur Watershed. National AFS. Pittsburgh, Pennsylvania.

Miller, C.M., Colombo, R.E., Phelps, Q.E., Garvey, J.E., and Heidinger, R.C. 2010. Predicting the Impact of Harvest on the Yield of Channel and Flathead Catfish in the Wabash River using Population Modeling. Catfish 2010. St. Louis, Missouri.

Miller, C.M., Colombo, R.E., and Pederson, C.L. 2010. Poster: Diversity of Ichthyofauna in the Tributary Streams of the Sangamon River. Rend Lake, Illinois.

Miller, C.M., Colombo, R.E., Phelps, Q.E., Garvey, J.E., and Heidinger, R.C. 2010. Predicting the Impact of Harvest on the Yield of Channel and Flathead Catfish in the Wabash River using Population Modeling. Illinois AFS. Rend Lake, Illinois.

Miller, C.M., Colombo, R.E., and Pederson, C.L. 2009. Poster: Comparative Fish Assemblages of the Lake Decatur Watershed. Midwest Fish and Wildlife Conference. Springfield, Illinois.

VI. ABSTRACTS SUMBITTED

Miller, C.M., Colombo, R.E., and Pederson, C.L. 2010. Poster: Diversity of Ichthyofauna in the Tributary Streams of the Sangamon River. Midwest Fish and Wildlife Conference. Minneapolis, Minnesota.

VII. AWARDS AND GRANTS

- **Graduate Student Investigator Award,** Eastern Illinois University: March 2010
- **Illinois AFS Travel Award,** Illinois American Fisheries Society: February 2010
- **Duffy Award,** Illinois American Fisheries Society and the North Central Division of the American Fisheries Society: November 2009
- **Williams Travel Award,** Eastern Illinois University: November 2009, March 2010
- **Research and Creative Activities Award,** Eastern Illinois University Graduate School: April 2009, March 2010
- **Cum Laude graduate,** University of North Dakota Commencement: December 2007
- **Glen Allen Paur Award,** University of North Dakota Department of Biology: October 2007
- **STAR Award,** US Fish and Wildlife Service: August 2007

VIII. UNDERGRADUATE MENTEES

- Population Demographics of Crappie in Four Midwestern Reservoirs
    - Sarah Thompson
    - Ethan Stephenson
    - Greg King
    - Branden Farmer

IX. SKILLS/ABILITIES

Field Work
- Proficient with Global Positioning Systems (GPS), including cartographical features for programming and offsets
- Proficient with fish nets including both active (larval trawls and seines) and passive (gill nets, deepwater gill nets, fyke nets) gear types
- Proficient in electric seining and boat electrofishing techniques
- Skilled with driving motored boats, also with loading and unloading boats on trailers
- Proficient in fish spawning techniques
- Familiar with salmonid redd counting techniques
- Familiar with fish tagging techniques including: Petersen disk tags, PIT tags, Coded Wire Tags (CWT), Visible Implant Elastomer tags, and dangler tags

Computer Technologies
- Proficient with spreadsheet mathematical function and graphs, macro development, and statistical analysis
- Proficient with ArcGIS and ArcCatalog including importing and exporting data sets
- Proficient with implementation and interpretation of ArcGIS Geostatistical Analyst (Inverse Distance Weighting, Semivariogram fitting, Kriging, etc.), Spatial Statistical Tools including point patter analysis functions (Ripley's K, Moran's I, K-Nearest Neighbor, etc.), Cluster Mapping (Anselin Moran's I, Getis-Ord G*, etc.)
- Proficient with Federal Geographic Committee standards for metadata compliance for GIS and map publishing
- Proficient with home-range analysis interpretation including adaptive and fixed kernel estimation
- Proficient with analysis and interpretation of landscape metrics (Fragstats, Patch Analyst)
- Familiar with SAS statistical software

Laboratory
- Proficient with water chemistry analyses including: hardness, alkalinity, ammonia, phosphates and nitrates
- Familiar with fish aging techniques including scale and otolith reading