

Auriel M.V. Fournier

PhD Candidate - University of Arkansas - Fayetteville
Arkansas Cooperative Fish and Wildlife Research Unit

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Education

- **University of Arkansas - Fayetteville** Fayetteville, AR
PhD in **Biological Sciences - Ecology and Evolutionary Biology** 2012 - expected 2016
Distinguished Doctoral Fellowship Recipient
- **Michigan Technological University** Houghton, MI
Bachelor of Science in **Wildlife Ecology and Management** 2008 - 2011
Minor - **Remote Sensing** Magna Cum Laude

Research Experience

- **Graduate Research Assistant** - Dr. David Krementz University of Arkansas
Arkansas Cooperative Fish and Wildlife Research Unit August 2012 - Present
Effects of wetland management strategies on habitat use of fall migrating rails on intensively-managed wetland complexes in Missouri
Performing distance based nocturnal ATV surveys for rails in wetland impoundments across the state of Missouri. Managing a four person field crew, working closely with state and federal land managers. Capturing rails, taking blood and feather samples.
- **Undergraduate Research Grant** - Dr. Joseph Bump Houghton, MI
Assessing the breeding location of Virginia Rails migrating through NW Ohio May 2011 - Present
with stable isotopes - Manuscript in progress
- **Summer Undergraduate Research Fellowship** - Dr. Joseph Bump Houghton, MI
Developing a morphometric model to predict the sex of Virginia Rails August 2010 - Dec 2011
Published in The Wildlife Society Bulletin 2013, Poster presented 2013
- **Undergraduate Research Grant** - Dr. David Flaspohler Houghton, MI
Eye color variation across the range of Golden-winged Warblers May 2010 - March 2011
Poster presented 2011
- **Summer Undergraduate Research Fellowship** - Dr. David Flaspohler Houghton, MI
Habitat Assessment of Pioneer Scout Reservation May - Aug 2009

Publications

Fournier, A.M.V. Sheildcastle, M.C., Fries, A.C., Bump, J.K., *Developing a morphometric model to predict the sex of Virginia rails* **The Wildlife Society Bulletin**, 37: 881-886 2013

- **Science Writing Tutor** University of Arkansas
Quality Writing Center January 2013 - Present
Tutoring undergraduate and graduate students on proper scientific writing. Editing thesis, dissertations, lab reports and other writing.
- **Environmental Education Internship** Hickory Corners, MI
Kellogg Bird Sanctuary, Michigan State University May - July 2012
Planned and led outdoor ed programs for all ages; Developed a social media plan
- **Bird Bander** Hilo, HI
Michigan Technological University - Dr. David Flaspohler February - May 2012
Banded endemic and endangered birds in isolated forest patches on the Big Island of Hawaii.
Operated double high mist-nets to capture birds and take blood and feather samples.
- **Volunteer Field Technician** Isle Royale National Park
Michigan Technological University - Dr. Joseph Bump May 2011
Worked full-time constructing aquatic moose and beaver exclosures in small inland lakes at Isle Royale National Park to study the affect of herbivory on plant communities
- **Remote Sensing/GIS Technician** Houghton, MI
Michigan Technological University - Dr. Mike Falkowski February 2010 - December 2011
Delineated cover type from color and B/W photos from past seventy years; Identified beaver dams and identified water bodies were created by the dams; Processed raw LiDAR data into maps for later interpretation
- **Field Technician** Minoqua, WI
Michigan Technological University - Dan Haskell July 2010
Trapped small mammals; Performed nocturnal audio boat surveys for frogs; Frequently talked to public about project
- **Field Crew Leader** Wisconsin and Minnesota
Michigan Technological University - Dr. Amber Roth March - June 2010
Led a crew of three to gather blood, feather and toenail samples of Blue-winged and Golden-winged Warblers across five study sites in Minnesota and Wisconsin; Developed the time line, budget and travel plans as to cover the largest area and gather the most samples; Established contact and coordinated site access on local, state, federal and military properties

- Fournier, A.M.V.** Krementz, D.G., Mengel, D.C., Raedeke, A.H., *Sora Migration and Wetland Management* The Wildlife Society National Conference - PA 2014
- Fournier, A.M.V.** Krementz, D.G., Mengel, D.C., Raedeke, A.H., *Ecology of Fall Migrating Sora in Missouri* The Wildlife Society National Conference - WI 2013
- Fournier, A.M.V.** Sheildcastle, M.C., Fries, A.C., Bump, J.K., *Developing a morphometric model to predict the sex of Virginia Rails* The Wildlife Society National Conference - HI 2011
- Fournier, A.M.V.** Roth, A.M., Flaspohler, D.J., *Assessing mechanisms for variation in the eyes of Golden-winged Warblers* Ecosystem Science Center Poster Session - MI 2011
- Fournier, A.M.V.**, Flaspohler, D.J., *Habitat Classification and Biological Inventory of Pioneer Scout Reservation* Undergraduate Research Expo - MI 2010

Presentations

- Fournier, A.M.V.** Krementz, D.G., Mengel, D.C., Raedeke, A.H. *A Crossover Experiment to Examine Rail Habitat Selection During Fall Migration* Midwest Bird Conservation and Monitoring Workshop 2014
- Fournier, A.M.V.** Krementz, D.G. *The Response of Fall Migrating Sora to Wetland Management* Arkansas State Chapter of the Wildlife Society Spring Meeting 2014
- Fournier, A.M.V.** Krementz, D.G. *The Use of U.A.V.s to Assess Wetland Vegetation Interspersion* Arkansas State Chapter of The Wildlife Society Spring Meeting 2014
- Fournier, A.M.V.** Krementz, D.G., Mengel, D.C., Raedeke, A.H., *Phenology, Habitat Use of Fall Migrating Rails in Missouri* Missouri Department of Conservation Annual Meeting 2013
- Fournier, A.M.V.** Krementz, D.G., Mengel, D.C., Raedeke, A.H., *Phenology, Habitat Use of Fall Migrating Rails in Missouri* Arkansas Coop Fish & Wildlife Research Unit Annual Meeting 2013
- Fournier, A.M.V.** Krementz, D.G., Mengel, D.C., Raedeke, A.H., *Phenology, Habitat Use and Co Occurrence of Fall Migrating Yellow Rails in Missouri* Yellow Rail Virtual Symposium, USFWS . . 2013

Grants

- Arkansas Audubon Society Trust** \$1200 2014
Migratory Stopover Timing, Survival and Habitat Use of Fall Migrating Sora in Managed Wetlands
- Summer Undergraduate Research Fellowship** \$3000 2011
Developing A Morphometric Model to Predict the Sex of Virginia Rails
- Ecosystem Science Center Undergraduate Research Grant** \$750 2011
What are the breeding and wintering areas of Virginia Rails which migrate through NW Ohio
- Ecosystem Science Center Undergraduate Research Grant** \$750 2010
Assessing the relationship between eye spotting and breeding location in Golden-winged Warblers
- Summer Undergraduate Research Fellowship** \$3000 2009
Habitat classification and Biological Inventory of Pioneer Scout Reservation

Sub-permit bird banding license holder (11 years experience) since 2002
NSC Defensive Driving II National Safety Council 1/2013
Defensive Driving AAA Driver Improvement Program 7/2012
CPR/First Aid American Red Cross 7/2012
ATV Rider Certification ATV Safety Institute 6/2012

Teaching Experience

Scientific Writing Tutor - Quality Writing Center - University of Arkansas January 2014 - Present
Teaching Assistant - Michigan Tech - Field Techniques Fall 2010 and 2011
Teaching Assistant - Michigan Tech - Creating Your Success Fall 2010 and 2011
Teaching Assistant - Michigan Tech - Ornithology Spring 2011

Honors

Distinguished Doctoral Fellowship - University of Arkansas 2012 - Present
Outstanding Senior in Wildlife Ecology and Management - Michigan Tech 2011
Member of the Year - The Wildlife Society Michigan Tech Student Chapter 2010
Woman of Promise - School of Forest Resources and Envi. Sci. - Michigan Tech 2009

Professional Development

Data Management Workshop The Wildlife Society National Conference / Pittsburgh, PA . . 2014
The Wildlife Society National Conference Pittsburgh, PA 2014
Midwest Bird Conservation and Monitoring Conference Port Washington, WI 2014
Applied Hierarchical Modeling Workshop Patuxent Wildlife Research Center/Royle & Kery 2014
'Adehabitat' R Package Workshop The Wildlife Society National Con/James Sheppard . . 2013
Occupancy Modeling Short Course Humboldt State U./Darryl MacKenzie 2013
The Wildlife Society National Conference Milwaukee, WI 2013
The Wildlife Society National Conference Waikialoa, HI 2011
Midwest Bird Conservation and Monitoring Conference Rockford, IL 2011
Guest Lecture Ornithology - Michigan Tech. Univ. - 'Migration and Navigation' 2011
Midwest Fish and Wildlife Conference Minneapolis, MN 2010
The Wildlife Society National Conference Snowbird, UT 2010
Wildlife Diversity Conference Ohio Department of Natural Resources - Columbus, OH . . . 2010
International Association of Great Lakes Researchers Conference Toledo, OH 2009
Wildlife Diversity Conference Ohio Department of Natural Resources - Columbus, OH . . . 2009

Invited Seminar	Arkansas Tech University Fish and Wildlife Seminar	2014
Volunteer	The Wildlife Society National Conference, Pittsburgh, PA	2014
Peer Reviewer	Waterbirds	2014 - Present
Peer Reviewer	The Wildlife Society Bulletin	2013 - Present
Outdoor Education Volunteer	Hobbs State Park, Arkansas	2013 - Present
Research Blog	Boots and Binoculars (aurielfournier.blogspot.com)	2010 - Present
Volunteer	The Wildlife Society National Conference, Milwaukee, WI	2013
North American Breeding Bird Survey Volunteer	U.S. Geological Survey	2011 - 13
Science Fair Judge	Regional/Local Science Fairs NW Arkansas	2013
Presentation	Springdale Alternative High School, Springdale, AR	2013
Volunteer	The Wildlife Society National Conference, Big Island, HI	2011
Panel Member	Wind Power Meeting - Upper Peninsula Environmental Coalition	2011
Outdoor Educator	W. U.P. Center for Science, Math and Envi. Education	April 2011
Owl Survey Volunteer	Michigan Bird Conservation Initiative	March 2011
Presentation	Copper Country Audubon Society	2010
Career Panel Member	Ohio Young Birder's Club Conference	2010
Presentation	Kirtland Bird Club - Cleveland, OH	2009
Presentation	Copper Country Audubon Society	2009
Bird Bander	Black Swamp Bird Observatory	Spring 2003 - 2009
Presentation	Ohio Young Birder's Club Conference	2008
Presentation	Black Swamp Bird Observatory Lunch Lecture	2008
Presentation	Ohio Young Birder's Club Conference	2007

Leadership

- **Student Development Working Group** The Wildlife Society
Treasurer 2014 - 2015
- **The Wildlife Society** University of Arkansas Student Chapter
Secretary 2014 - Present
Treasurer 2012 - 2014
- **Biology Graduate Student Association** University of Arkansas
Treasurer 2014 - Present
Vice President 2013 - 2014
- **The Wildlife Society** Michigan Tech Student Chapter
Activities Chair 2008 - 2011
- **The Honors Institute** Michigan Technological University
Treasurer, Secretary, Committee Chair 2008 - 2011
- **The Birdbums** Student Birding Organization
Founding Member & President 2008 - 2011
- **Xi Sigma Pi Honors Fraternity** Michigan Tech Student Chapter
Symposium Chair 2010 - 2011

- **Advanced:** ArcGIS (9 and 10), R
- **Intermediate:** Fragstats, Fusion, ERDAS Imagine, Systat
- **Beginner:** Latex, Presence, Markdown
- **Field Skills**
 - Map and Compass, GPS, Visual/Song Identification of Eastern Bird Species, Forestry Measurements, Operating ATVs, Power and Hand Tools, Canoe/Kayak, Manual Transmission, 4WD Trucks, Driving Trailers, Frog and Toad Surveys, Nocturnal Work, Small Engine Repair

Memberships

The Wildlife Society National, Section, State, Student Chapter, Student Development Working Group, Wetlands Working Group, Spatial Ecology and Telemetry Working Group . . . 2008 - Present
American Ornithologists Union 2012 - Present
Association of Field Ornithologists 2012 - Present
The Waterbirds Society 2012 - Present
NW Arkansas Audubon Society 2012 - Present
Black Swamp Bird Observatory 2003 - Present