

Alex O. Sutton
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Education and Professional Appointments

Postdoctoral Associate, Kansas State University, Manhattan, KS (May 2020 – present)

Ph.D., Integrative Biology, University of Guelph, Guelph, ON (September 2014 – March 2020)

B.Sc., Zoology (Honours), University of Guelph, Guelph, ON (September 2009 – April 2013)

Peer-Reviewed Publications

- 7) **Sutton, A.O.**, Furst, M., Bill, K. Into the drink: an observation of a novel hunting technique employed by the Eastern Grey Squirrel (*Sciurus carolinensis*). *Canadian Field Naturalist*
- 6) Freeman, N.E., Norris, D.R., **Sutton, A.O.**, Newman, A.E. 2019. Raising young with limited resources: supplementation improves nestling condition and advances fledging of Canada jays. *Ecology*, e02909.
- 5) **Sutton, A.O.**, Strickland, D., Freeman, N.E., Newman, A.E., Norris, D.R. 2019. Fall freeze-thaw events carry over to depress late-winter reproductive performance in Canada jays. *Royal Society Open Science*, 6(4): 181754.
- 4) Ralston, J. Lorenc, L., Montes, M., DeLuca, W.V., Kirchman, J.J., Woodworth, B.K., Mackenzie, S.A., Newman, A.E., Cooke, H.A., Freeman, N.E., **Sutton, A.O.**, Tauzer, L., Norris, D.R. 2019. Length polymorphisms at two candidate genes explain variation of migratory behaviours in blackpoll warblers (*Setophaga striata*). *Ecology and Evolution*, 9(15): 8840-55.
- 3) DeLuca, W, Woodworth, B., Mackenzie, S., Newman, A.E., Cooke, H., Phillips, L., Freeman, N.E., **Sutton, A.O.**, Tauzer, L. McIntyre, C., Stenhouse I., Weidensaul, S., Taylor, P, Norris, D.R. 2019. A boreal songbird's 20,000 km migration across North America and the Atlantic Ocean. *Ecology*, e02651.
- 2) **Sutton, A.O.**, Turko, A.J., McLaughlin, R.L., Wright, P.A. 2018. Behavioural and physiological responses of an amphibious, euryhaline mangrove fish to acute salinity exposure. *Copeia*, 106(2): 305-11.
- 1) **Sutton, A.O.**, Strickland, D., Norris, D.R. 2016. Food storage in a changing world: implications of climate change for food-caching species. *Climate Change Responses*, 3(1): 12.

Scholarships and Awards

| Funding Source | Year | Amount |
|---|-------------|---------------|
| CSEE Travel Award | 2019 | \$500 |
| Ontario Graduate Scholarship | 2018 | \$15,000 |
| James L. Baillie Award | | |
| Awarded annually to support studies on Canadian birds in their natural environment that contribute to preservation or conservation of a species | 2018 | \$2,000 |
| AOS Travel Award | 2018 | \$200 |
| SCO Travel Award | 2018 | \$200 |

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|---|---------|-----------------|
| <i>Queen Elizabeth II Graduate Scholarship in Science and Technology</i> | 2017 | \$15,000 |
| <i>Wildlife 70 Symposium Student Bursary</i> | 2017 | \$300 |
| <i>North American Ornithological Conference Travel Scholarship</i> | 2016 | \$210 |
| <i>American Association for the Advancement of Science Program for Excellence in Science</i> | 2016-19 | Awarded |
| <i>AOU Student Membership Award</i> | 2015 | Awarded |
| <i>Ontario Graduate Scholarship</i> | 2015 | \$15,000 |
| <i>Graduate Tuition Scholarship</i> | 2014-16 | \$16,000 |
| <i>George F. Holeton Prize</i> | | |
| Awarded annually to the best poster in the physiology and biochemistry section of the Canadian Society of Zoologist meeting | 2014 | Nominated |
| <i>Dean's Honours List</i> | 2009-13 | Awarded |
| <i>University of Guelph Entrance Scholarship</i> | 2009 | \$4,000 |
| Total | | \$68,410 |

Research Funding

| Title of Proposal | Funding Source | Year | Amount |
|--|--|-------------|-----------------|
| <i>Quantifying juvenile mortality and dispersal patterns of a boreal passerine</i> | Ontario Ministry of Natural Resources and Forestry Climate Change Fund | 2018 | \$6,000 |
| <i>Quantifying juvenile mortality and dispersal patterns of a boreal passerine</i> | Ontario Ministry of Natural Resources and Forestry Climate Change Fund | 2017 | \$12,100 |
| <i>Quantifying juvenile mortality and dispersal patterns of a boreal passerine</i> | W. Garfield Weston Foundation Fellowship for Northern Conservation | 2016 | \$15,000 |
| <i>Quantifying juvenile mortality and dispersal patterns of a boreal passerine</i> | Ontario Ministry of Natural Resources and Forestry Climate Change Fund | 2016 | \$10,000 |
| <i>Proximate mechanisms linking climate change to population declines in a food caching boreal passerine</i> | W. Garfield Weston Foundation Fellowship for Northern Conservation | 2015 | \$5,000 |
| Total | | | \$48,100 |

Conference / Workshop Presentations

- **A.O. Sutton**, D. Strickland, N.E. Freeman, M.C. Sorensen, D.R. Norris. (2019). Climate-mediated carry-over effects drive population growth rate in a boreal passerine. Poster presentation at the Canadian Society of Ecology and Evolution, Fredericton, New Brunswick.
- **A.O. Sutton**, D. Strickland, N.E. Freeman, A.E. Newman, D.R. Norris. (2018). Climatic and demographic drivers of population decline of a boreal, food-caching passerine, the Canada jay. International Ornithological Congress, Vancouver, British Columbia.

- N.E. Freeman, D.R. Norris, **A.O. Sutton**, D. Strickland, A.E. Newman. (2018). Early-life resources influence nestling condition, physiology and fledging in Canada Jays. International Ornithological Congress, Vancouver, British Columbia. *contributing author
- D.R. Norris, B.K. Woodworth, S.A. MacKenzie, A.E. Newman, L. Phillips, H. Cooke, **A.O. Sutton**, N.E. Freeman, P.D. Taylor, W.V. Deluca. (2018). From Alaska to the Amazon: the 20,000 km migratory journey of a 12-gram boreal-breeding songbird. International Ornithological Congress, Vancouver, British Columbia. *contributing author
- **A.O. Sutton**, D. Strickland, N.E. Freeman, A.E. Newman, D.R. Norris. (2018). Climatic and demographic drivers of population decline of a boreal, food-caching passerine, the Canada jay. Canadian Society of Ecology and Evolution, Guelph, Ontario.
- D.R. Norris, B.K. Woodworth, S.A. MacKenzie, A.E. Newman, L. Phillips, H. Cooke, **A.O. Sutton**, N.E. Freeman, P.D. Taylor, W.V. Deluca. (2018). From Alaska to the Amazon: the 20,000 km migratory journey of a 12-gram boreal-breeding songbird. Canadian Society of Ecology and Evolution, Guelph, Ontario. *contributing author
- **A.O. Sutton**. (2018). An introduction to food caching. Moving outside the lab: Ecology and evolution of food caching in the wild, Symposium at Canadian Society of Ecology and Evolution, Guelph, Ontario.
- N.E. Freeman, D.R. Norris, D. Strickland, **A.O. Sutton**, A.E. Newman. (2018). Early life resources influence physiology and fledging in a winter-breeding bird. Canadian Society of Ecology and Evolution, Guelph, Ontario. *contributing author
- **A.O. Sutton**, D. Strickland, D.R. Norris. (2017). Climate-driven carry-over effects on reproduction of a boreal passerine. Wildlife 70: A Symposium on Long-term Research, Peterborough, Ontario.
- **A.O. Sutton**, D. Strickland, D.R. Norris. (2016). Climate-driven carry-over effects on reproduction of a boreal passerine. North American Ornithological Conference, Washington, D.C.
- **A.O. Sutton**, A.J. Turko, R.L. McLaughlin, P.A. Wright. (2013). Osmotically shocking behaviour: behavioural responses to acute salinity exposure in a selfing hermaphrodite. Poster presentation at the Canadian Society of Zoologists, Guelph, Ontario.
- **A.O. Sutton**, A.J. Turko, R.L. McLaughlin, P.A. Wright. (2013). Osmotically shocking behaviour: behavioural responses to acute salinity exposure in a selfing hermaphrodite. Comparative Physiology and Biochemistry Workshop, Rice Lake, Ontario.

Invited Presentations

- Muskoka Field Naturalists. (2019). *Life on the edge: what we have learned from the Canada jays of Algonquin Provincial Park*.
- Ontario Bird Banding Association General Meeting. (2019). *Fall of the Canada jay: understanding the drivers of population decline of Canada jays at the southern edge of their range*

- Parry Sound Nature Club. (2019). *Life on the edge: what we have learned from the Canada jays of Algonquin Provincial Park.*
- Algonquin Christmas Bird Count. (2018). *Life and times of Canada jays in Algonquin Provincial Park.*
- Huntsville Nature Club. (2018). *Life on the edge: what we have learned from the Canada jays of Algonquin Provincial Park.*
- Macnamara Field Naturalists. (2018). *Life on the edge: what we have learned from the Canada jays of Algonquin Provincial Park.*
- Hamilton Nature Club Ornithology Study Group. (2018). *Life on the edge: what we have learned from the Canada jays of Algonquin Provincial Park.*
- Comparative Physiology Seminar Series, University of Guelph. (2014). *Integrating physiology and behaviour to study individual variation in a clonal fish.*

Non-Refereed Publications

- Freeman, N.E., **Sutton, A.O.**, Newman, A.E., Norris, D.R. and Strickland, D. 2018. Long term monitoring of Canada jays (*Perisoreus canadensis*): An update. Annual scientific report for the Algonquin Wildlife Research Station.
- Freeman, N.E., **Sutton, A.O.**, Newman, A.E., Norris, D.R. and Strickland, D. 2017. Long term monitoring of gray jays (*Perisoreus canadensis*): An update. Annual scientific report for the Algonquin Wildlife Research Station.
- Freeman, N.E., **Sutton, A.O.**, Newman, A.E., Norris, D.R. and Strickland, D. 2016. Long term monitoring of gray jays (*Perisoreus canadensis*): An update. Annual scientific report for the Algonquin Wildlife Research Station.
- Freeman, N.E., **Sutton, A.O.**, Newman, A.E., Norris, D.R. and Strickland, D. 2015. Long term monitoring of gray jays (*Perisoreus canadensis*) in Algonquin Park: An update. Annual scientific report for the Algonquin Wildlife Research Station.
- Derbyshire, R., **Sutton, A.O.**, Freeman, N.E., Newman, A.E., Norris, D.R. and Strickland, D. 2014. Long-term monitoring and short-term experiments to investigate the causes of gray jay (*Perisoreus canadensis*) declines in Algonquin Park. Annual scientific report for the Algonquin Wildlife Research Station.

Outreach

- Meet the Researcher Day, Algonquin Provincial Park. (2019). *Living on the edge: the influence of climate change on Canada jays of Algonquin Park*
- Meet the Researcher Day, Algonquin Provincial Park. (2018). *Living on the edge: the influence of climate change on Canada jays (Perisoreus canadensis)*

- Ontario Field Ornithologists Young Birders Field Trip, Algonquin Provincial Park. (2018). *Ecology and behaviour of Canada jays (Perisoreus canadensis)*
- Meet the Researcher Day, Algonquin Provincial Park. (2017). *Living on the edge: the influence of climate change on gray jays (Perisoreus canadensis)*
- Huntsville Nature Club Field Trip, Algonquin Provincial Park. (2017). *Ecology and behaviour of gray jays (Perisoreus canadensis)*
- Ontario Field Ornithologists Young Birders Field Trip, Algonquin Provincial Park. (2017). *Ecology and behaviour of gray jays (Perisoreus canadensis)*
- Meet the Researcher Day, Algonquin Provincial Park. (2016). *Living on the edge: the influence of climate change on gray jays (Perisoreus canadensis)*
- Meet the Researcher Day, Algonquin Provincial Park. (2015). *Living on the edge: the influence of climate change on gray jays (Perisoreus canadensis)*
- Meet the Researcher Weekend, Algonquin Wildlife Research Station. (2015). *Ecology and behaviour of a resident boreal passerine, the gray jay (Perisoreus canadensis)*.

Popular Science Writing

- “Algonquin Adventures”, Dispatches from the Field. (2018).
- “Keeping up with the Canada jay”, Ontario Parks Blog. (2018).
- “Canada jay Research in Algonquin Park”, The Raven. (2018)
- “Gray jay Research Update”, The Raven. (2017).

Conference Services

- *Symposium Organizer: Translating mechanisms to action: applying current knowledge of population dynamics to predict future change* at Canadian Society for Ecology and Evolution 2020
- *Symposium Organizer: Moving outside the lab: Ecology and evolution of food caching in the wild* at Canadian Society for Ecology and Evolution 2018
- *Organizing Committee: Canadian Society for Ecology and Evolution 2018*
- *Workshop Organizing Committee: Canadian Society for Ecology and Evolution 2018*
- *Volunteer: North American Ornithological Conference, Washington, D.C.*

Professional Development

- Intermediate-level workshop on Bayesian integrated population modeling using BUGS and JAGS [5 days] by Michael Schaub, Marc Kéry and Sarah Converse (Patuxent Wildlife Research Center 2016)
- Forum on Inventive Teaching in Ornithology workshop [4 hours] (North American Ornithological Conference 2016)

- Undergraduate Laboratory Exercises in Ornithology [4 hours] (North American Ornithological Conference 2016)

Technical Training

- SafeTALK suicide awareness training (University of Guelph 2017)
- Beyond the Books mental health awareness (University of Guelph 2017)
- Scientific Bird Banding Sub-permit, under Chris Earley (Canadian Wildlife Service 2017)
- Scientific Bird Banding Sub-permit, under Stuart Mackenzie (Canadian Wildlife Service 2016)
- Worker Health and Safety Awareness Training (University of Guelph 2016, 2019)
- Accessible Service Provision (University of Guelph 2016)
- Bear Safety Training (Ministry of Natural Resources 2016, 2017, 2018)
- Snowmobile Operators Course (Canada Safety Council 2015)
- WHMIS (University of Guelph 2014, 2019)
- P.A.D.I SCUBA Advanced Open Water (Seashell Diving 2014)
- P.A.D.I SCUBA Open Water (Seashell Diving 2014)

Professional Organization – Memberships

- Canadian Society of Ecology and Evolution (2018-current)
- American Society of Ichthyologists and Herpetologists (2017-2018)
- Animal Behaviour Society (2016-2017)
- American Ornithologists' Society (2015-current)
- Society of Canadian Ornithologists (2015-current)
- Association of Field Ornithologists (2015-2018)
- Wilson Ornithological Society (2015-2017)
- Canadian Society of Zoologist (2013-2014)

Work Experience

- *Field Technician*, Smithsonian Migratory Bird Center, Toledo, Belize (Jan 2014-May 2014)
- *Research Assistant*, University of Guelph, Guelph, ON (Sep 2013-Dec 2013)
- *Crew Leader*, Smithsonian Migratory Bird Center, Madsion, IN (Apr 2013-Aug 2013)
- *Field Technician*, Smithsonian Migratory Bird Center, Madison, IN (Apr 2012-Aug 2012)
- *Species at Risk Technician*, Environment and Climate Change Canada (Jun 2011-Aug 2011)

Mentoring and Teaching Experience

Mentoring

- Kailey Watson, Field internship, Algonquin Wildlife Research Station (Apr 2018)
- Jacob LaChapelle, iBUMP Program and honours thesis student, University of Guelph, ON (Apr 2017-Apr 2018)
- Kevin Valdez, Field research placement, Algonquin Wildlife Research Station, ON (Mar 2017)
- Laura Waltenbury, Field research placement, Algonquin Wildlife Research Station, ON (Mar 2016)

Guest Lectures

- *Food caching behaviour*, Animal Behaviour (2015, 2017, 2018, 2019).
- *Life on the edge: climatic and demographic drivers of Canada jay population dynamics*, Wildlife Conservation and Management (2019)

Teaching Assistantships

- Animal Behaviour, University of Guelph, Guelph, ON (Sep-Dec 2015, 2016, 2017, 2018)
- Lab Studies in Ornithology, University of Guelph, Guelph, ON (Sep-Dec 2015)
- Ecology, University of Guelph, Guelph, ON (May-Aug 2015)
- Humans in the Natural World, University of Guelph, ON (Jan-Apr 2015)

Manuscript Reviewer

- Global Change Biology, European Journal of Zoology, Journal of Mammalogy

Volunteer Positions

- *Rock Climbing Club Co-president*, University of Guelph, ON (2018-2020)
- *Wildlife Disease Association Guelph Chapter Co-president*, University of Guelph, ON (2017-2019)
- *Integrative Biology Graduate Student Mental Health and Wellness Committee* (2016-present)
- *Rock Climbing Club Executive member*, University of Guelph, ON (Jan 2012-Apr 2013, Sep 2014-present)
- *Bird Bander*, rare Charitable Research Reserve, ON (Sep-Nov 2012, 2013, 2017)
- *Peer Helper*, Undergraduate Academic Information Center, ON (Jan 2011-Apr 2013)
- *Research Assistant*, Dr. Patricia Wright, University of Guelph, ON (Sep 2010-Apr 2013)
- *Wildlife Club Co-president*, University of Guelph, ON (Sep 2012-Apr 2013)
- *Research Assistant*, Dr. Alex Smith, University of Guelph, ON (Jan-Apr 2012)
- *Field Assistant*, York University, Hemlock Hills Field Station, PA (May-Jun 2010, 2011)