

## Gaetan Dupont

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### EDUCATION

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| 2021 (Current) | M.Sc. Organismic and Evolutionary Biology<br>University of Massachusetts Amherst<br>Dr. Chris Sutherland<br>Thesis: "Statistical approaches for ecological learning about spatial processes"   |
| 2019           | B.Sc. Environmental and Sustainability Sciences<br>Cornell University<br>Dr. Amanda Rodewald, Dr. Evan Cooch<br>Thesis: "Recent avian population dynamics in the Northeastern United States suggest persistent but diminished impacts of West Nile virus." |

### GRANTS & FELLOWSHIPS

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| 2019 – 2020 | "Developing scalable study design protocols to estimate snow leopard ( <i>Panthera uncia</i> ) density and population size using non-invasive sampling."<br>Dupont, G., Nawaz, M. A., Sutherland, C.<br>Sabin Snow Leopard Grant<br>Panthera (PI, \$8,600) |
| 2019        | "JAGSMAP (Jaguars at the Global Scale: a Meta-Analysis of the Population)"<br>Summer Research Fellow<br>Population Sustainability<br>Institute for Conservation Research<br>San Diego Zoo Global (\$7,000)   |
| 2019        | Undergraduate Research Funds<br>Cornell Lab of Ornithology (\$1,590)   |
| 2017 – 2018 | Research Experience for Undergraduates (NSF REU)<br>National Science Foundation (\$3,400)<br>BirdVox, Cornell Lab of Ornithology   |

2017 Funds for Undergraduate Research  
Department of History  
Cornell University (PI, \$400)

## AWARDS

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2019 Student Travel Award  
American Ornithological Society (\$550)

## PEER-REVIEWED PUBLICATIONS

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2020

**Dupont, G.**, Royle, J. A., Nawaz, M. A., Sutherland, C. 2020. Optimal sampling design for spatial capture-recapture. *Ecology*. Accepted Author Manuscript e03262.  
<https://doi.org/10.1002/ecy.3262>

*Invited contribution to special issue, in prep.*

**Dupont, G.**, Linden, D., Sutherland, C. 2021. On the integration of an explicit movement model with spatial capture-recapture for improved inferences about landscape connectivity. *Ecology*. (Special issue: "Animal movement and spatial capture-recapture: finding an integrated path").

## PROFESSIONAL PRESENTATIONS WITH PUBLISHED ABSTRACTS

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2020

**Dupont, G.**, Royle, J. A., Nawaz, M. A., Sutherland, C. Towards optimal sampling design for spatial capture-recapture. Poster. Ecological Society of America Virtual Meeting: Harnessing the ecological data revolution. Salt Lake City, UT, USA. (Invited)

**Dupont, G.**, Royle, J. A., Nawaz, M. A., Sutherland, C. Towards optimal sampling design for spatial capture-recapture. Poster. virtual International Statistical Ecology Conference (vISEC2020). Sydney, Australia.

2019

**Dupont, G.**, Bonter, D., Robinson, O. Modeling persistent effects of West Nile virus on avian population dynamics in the Northeastern United States. 15-minute talk. 137th Stated Meeting of the American Ornithological Society. Anchorage, Alaska.

Sayers, C.\*, Roeder, M., Forrette, L., Roche, D., **Dupont, G.**, Apgar, S., Kocek, A., Cook, A., Shriver, G., Elphick, C., Olsen, B., Bonter, D. Geographic variation of mercury in breeding tidal marsh sparrows of the northeastern United States. Poster. 14th International Conference on Mercury as a Global Pollutant. Kraków, Poland. (\* undergraduate first author)

2017

**Dupont, G.**, Falk, O. Seabirds to starboard: notes on Norse navigational technique. Talk. Time, Space & Narrative in Medieval Icelandic Literature. University of Iceland, Reykjavik, Iceland.

## OTHER SCHOLARLY PRESENTATIONS

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2018

**Dupont, G.**, Bonter, D., Robinson, O. Spatiotemporal Trends in Avian Populations Following the Introduction of West Nile Virus in North America. 15-minute talk. New York State Ornithological Association 2018 Annual Meeting. Rochester, New York. (Invited)

## EDITORIAL-REVIEWED PUBLICATIONS

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2020

**Dupont, G.**, Curson, J., Spencer, A.J. Wrenthrust (*Zeledonia coronata*), version 2.0. In Birds of the World (P. Rodewald, T. Schulenberg, S. Billerman, Editors). Cornell Lab of Ornithology, Ithaca, NY, USA.

2017

In press

**Dupont, G.**, Falk, F. Seabirds to Starboard: Notes on Norse Navigational Technique. *Conference Proceedings: Time, Space & Narrative in Medieval Icelandic Literature*. University of Iceland, Reykjavik, Iceland.

**Dupont, G.** Avian Eyeshine. Bird Academy, Cornell Lab of Ornithology.

## JOURNAL REVIEWING

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2020

*Ecology*

## WORKSHOPS TAUGHT

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2020

Lecturer: Sampling Design

Introduction to Spatial Capture-Recapture

J. Andrew Royle, Chris Sutherland, Dan Linden, and Gates Dupont

## **COURSES TAUGHT**

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2020	Teaching Assistant BIOL 153: Introductory Biology Lab University of Massachusetts Amherst
2018	Teaching Assistant NTRES 4750: Ornithology Cornell University

## **FIELDWORK**

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2018	Avian Conservation Intern Massachusetts Division of Fisheries and Wildlife
2016	Field Team Leader Engaged Cornell Cornell Lab of Ornithology Cornell University

## **OUTREACH**

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2018	Visiting Lecturer, Avian Ecology Thoreau Elementary School
2017 – 2019	Ecology Curriculum Developer and Visiting Lecturer The Fenn School (Elementary School)
2017 – 2018	Internship Developer for Ecotourism Consultancy Cornell Ecotourism Club Cornell University
2017	Visiting Lecturer, Avian Ecology Boy Scout Troop 132 Boy Scouts of America
2015 – 2016	Tour Guide Cornell Lab of Ornithology

## **NON-ACADEMIC WORK**

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2018	Conservation Multimedia Production Assistant Multimedia Department Cornell Lab of Ornithology
2016 – 2018	Mobile App Development Assistant Merlin Cornell Lab of Ornithology

## **PROFESSIONAL AFFILIATIONS**

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American Ornithological Society  
British Ecological Society  
Ecological Society of America