# DISEASE ECOLOGIST · ECOLOGICAL MODELER · OPEN SCIENCE SOFTWARE DEVELOPER PO Box AB, Millbrook, NY, 12545 USA

\$\times \text{+1 (845) 677-7600 x131 | \$\square\$ pilowskyj@caryinstitute.org | \$\text{\till{\text{\till{\text{\till{\text{\text{\text{\tin\text{\texi\text{\text{\text{\text{\text{\text{\text{\text{\texitil\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\texi}\tint{\text{\texicl{\text{\texi}\text{\texit{\text{\texicl{\text{\texi

## **Employment**\_

POSTDOCTORAL SCIENTIST

#### **Cary Institute of Ecosystem Studies**

Millbrook, NY, USA

2023 - Present

- Research on the ecology of infectious disease at the human-wildlife interface.
- Development of epizootic R package for process-explicit spatial models of disease.

### **Education**

### University of Copenhagen & University of Adelaide

Copenhagen, DK; Adelaide, AU

DOCTOR OF PHILOSOPHY (BIOLOGY)

2019 - 2024

- Thesis title: Revealing ecological processes of range dynamics through space and time
- Supervisors: Dr. Damien Fordham and Dr. Carsten Rahbek

**Tufts University**Medford, MA, USA

 Master of Science (Biology)
 2013 – 2017

- Thesis title: The behavioral ecology of a wasp invasion
- Supervisor: Dr. Philip STARKS

Columbia University

New York, NY, USA

BACHELOR OF ARTS (ECOLOGY, EVOLUTION & ENVIRONMENTAL BIOLOGY)

2008 - 2012

2022

2013

### **Publications**.

#### First-author publications:

OF PALAEOCLIMATE MODEL

MILLENNIAL PROCESSES OF POPULATION DECLINE, RANGE CONTRACTION AND NEAR EXTINCTION OF THE

7
FUROPEAN BISON

J. A. Pilowsky, S. C. Brown, B. Llamas, A. L. van Loenen, R. Kowalczyk, E. Hofman-Kamińska, N. H. Manaseryan, V. Rusu, M.

Proceedings of the Royal

Križnar, C. Rahbek, and D.A. Fordham

Society B

SIMULATIONS OF HUMAN MIGRATION INTO NORTH AMERICA ARE MORE SENSITIVE TO DEMOGRAPHY THAN CHOICE

PROCESS-EXPLICIT MODELS REVEAL THE STRUCTURE AND DYNAMICS OF BIODIVERSITY PATTERNS

SOCIAL CONTEXT AND THE LACK OF SEXUAL DIMORPHISM IN SONG IN AN AVIAN COOPERATIVE BREEDER

J. A. Pilowsky, A. Manica, S. Brown, C. Rahbek, and D. A. Fordham

Ecological Modelling

Range and extinction dynamics of the steppe bison in Siberia: A pattern-oriented modelling

APPROACH

J. A. Pilowsky, S. Haythorne, S. C. Brown, M. Krapp, E. Armstrong, B. W. Brook, C. Rahbek, and D. A. Fordham

Global Ecology & Biogeography

J. A. Pilowsky, R. K. Colwell, C. Rahbek, and D. A. Fordham
Science Advances

INCORPORATING THE TEMPORAL AUTOCORRELATION OF DEMOGRAPHIC RATES INTO STRUCTURED POPULATION

2019

J. A. Pilowsky and J. P. Dahlgren

DISPLACEMENT AND REPLACEMENT IN REAL TIME: POLISTES DOMINULA'S IMPACT ON P. FUSCATUS IN THE
NORTHEASTERN U.S.

J. A. Pilowsky and P. T. Starks
Biological Invasions

J. A. Pilowsky and D.R. Rubenstein

Animal Behaviour

### N-author publications:

NALIDATION  O. A. Fordham, S. C. Brown, H. R. Akçakeya, B. M. Brook, S. Haytharne, A. Monica, K. T. Shoemaker, J. J. Austin, B. Blonder, J. A. Pilowsky, C. Rahbek, and D. Mogues-Brava.  3. USING PALEO-ACCHIVES TO SAFEGLIARO BLODIVERSITY UNDER CLIMATE CHANGE  O. A. Fordham, S. T. Jackson, S. C. Brown, B. Hundley, B. W. Brook, D. Dohl-Jessey, M. T. P. Gilbert, B. L. Otto-Bilesner, A. Svenson, S. Theodoridis, J. M. Wilmshurst, J. C. Buettel, E. Canteri, M. McDowell, L. Orlando, J. A. Pilowsky, C. Rahbek, and O. Mogues-Brave  2. SONG In A SOCIAL AND SEXUAL CONTEXT: VOCALIZATIONS SIGNAL IDENTITY AND RANK IN BOTH SEXES OF A COOPERATIVE BREEDER  S. Keen, C. D. Melizo, J. Pilowsky, and D. R. Rubenstein romes in Ecology & Evolution PLOIDY  N. Wilson Rich, J. A. Pilowsky, B. Foo, T. Tien, F. Hester, and P. T. Starks hosectes socious  Leadership & Community Service  ropensci  Peccase Brustwer  Society for Open, Reliable, and Transparent Ecology & Evolutionary Biology (SORTEE)  WILSTITE EDITOR & Misseler  2024  Ecological Society of America, "Blases in parasite richness estimates arising from coinfection dynamics"  Ecological Society of America, "Blases in parasite richness estimates arising from coinfection dynamics"  Ecological Society of America, "Blases in parasite richness estimates arising from coinfection dynamics"  Ecological Society of America, "Blases in parasite richness estimates arising from coinfection dynamics"  Ecological Society of America, "Blases in parasite richness estimates arising from coinfection dynamics"  Ecological Society of Australia, "Simulating species range dynamics over long time scales"  Ecological Society of Australia, "Simulating species range dynamics over long time scales"  Following C. R. USA  Polo Allo,			
A Pilowsky, C. Rohbek, and D. Nogues Brovo.  3. USING PALED-ARCHVESTO SAFEGUARD BIODIVERSITY UNDER CLIMATE CHANGE D. A. Fordhom, S. T. Jockson, S. C. Brown, B. Huntley, B. W. Brook, D. Dohl-Jensen, M. T. P. Gilbert, B. L. Otto Bilesner, A Suensas, S. Theadondia, J. M. Wilmshurst, J. C. Buettel, E. Content, M. McDowell, L. Orlando, J. A. Pilowsky, C. Rohbek, and D. Nogues Brovo  3. OSONG IN A SOCIAL AND SEXUAL CONTEXT: VOCALIZATIONS SIGNAL IDENTITY AND RANK IN BOTH SEXES OF A COOPERATIVE BREEDER S. Keen, C. D. Meliza, J. Pilowsky, and O. R. Rubenstein Frontiers in Froiding & Frontiers in Frontiers	4		Z022
D. A. Fordham, S. T. Jackson, S. C. Brown, B. Huntley, B. W. Brook, D. Dohl-Jensen, M. T. P. Gilbert, B. L. Otto-Bilesner, A.  Senesson, S. Theodoridis, J. M. Wilmshurst, J. C. Buettel, F. Conteri, M. McDowell, L. Orlando, J. A. Pilowsky, C. Rohbek, and Science  2			<b>ler, J.</b> Ecology Letters
Svensson, S. Theodoridis, J. M. Wilmshurst, J. C. Buettel, E. Conterl, M. McDowell, L. Orlando, J. A. Pilowsky, C. Rahbek, and D. Nogues-Bravo  2 SONG IN A SOCIAL AND SEXUAL CONTEXT: VOCALIZATIONS SIGNAL IDENTITY AND RANK IN BOTH SEXES OF A COOPERATIVE BREEDER S. Keen, C. D. Meliza, J. Pilowsky, and D. R. Rubenstein Frontiers in Ecology & Evolution Technique of Providers International Providers Internationa	3	USING PALEO-ARCHIVES TO SAFEGUARD BIODIVERSITY UNDER CLIMATE CHANGE	2020
2 SONG IN A SOCIAL AND SEXUAL CONTEXT: VOCALIZATIONS SIGNAL IDENTITY AND RANK IN BOTH SEXES OF A COPERATIVE BREEDER S. Reen, C. D. Nellow, J. Pilowsky, and D. R. Rubenstein Frontagy & Fuchultion  1 A TEST OF THE HAPLOID SUSCEPTIBILITY HYPOTHESIS USING A SPECIES WITH NATURALLY OCCURRING VARIATION IN PLOIDY  N. Wilson-Rich, J. A. Pilowsky, B. Foo, T. Tien, F. Hester, and P. T. Starks Insectes socious  Leadership & Community Service  **POPENSC!**  **POPENSC!*  **PO		D. A. Fordham, S. T. Jackson, S. C. Brown, B. Huntley, B. W. Brook, D. Dahl-Jensen, M. T. P. Gilbert, B. L. Otto-Bliesner, A.	
2016 2 COOPERATIVE BREEDER 3. Keen, C. D. Melizo, J. Pilowsky, and D. R. Rubenstein A TEST OF THE HAPLOID SUSCEPTIBILITY HYPOTHESIS USING A SPECIES WITH NATURALLY OCCURRING VARIATION IN PLOIDY N. Wilson Rich, J. A. Pilowsky, B. Foo, T. Tien, F. Hoster, and P. T. Starks Insectes socious  Leadership & Community Service  rOpenSci PACKAGE REVIEWER Society for Open, Reliable, and Transparent Ecology & Evolutionary Biology (SORTEE) SORTEE WEBSITE EDITOR & MEMBER  2024  Ecological Society of America, "Blases in parasite richness estimates arising from coinfection dynamics" Ecology and Evolution of Infectious Disease, "epizootic: an R package for process-explicit spatial population models of wildlife disease" 2021 Ecological Society of America, "Simulating species range dynamics over long time scales" Virtual Conference 2017 Ecological Society of America, "The ecology of cooperation in Polistes wasps" Portland, OR, USA  Lectures & Teaching  2024 Process-Explicit Models in Disease Ecology, Guest lecture at Skidmore College Process-Explicit Models in Disease Ecology, Guest lecture at Skidmore College Process-Explicit Models in Disease Ecology, Guest lecture at Skidmore College Revenge of the Bison!, Presentation at Ingenuity Convention Adelaide, AU Mediand, M., USA  Honors & Awards  2021 Bean's Commendation for Dissertation Excellence, University of Adelaide Adelaide, AU			and Science
COOPERATIVE BREEDER  S. Keen, C. D. Melliza, J. Pillowsky, and D. R. Rubenstein  A TEST OF THE HAPLOID SUSCEPTIBILITY HYPOTHESIS USING A SPECIES WITH NATURALLY OCCURRING VARIATION IN PLOIDY  N. Wilson-Rich, J. A. Pillowsky, B. Foo, T. Tien, F. Hester, and P. T. Starks  Insectes socious  Leadership & Community Service  **POPENSC!**  **POPENSC!*  **POPENSC!**  **POPENSC!**  **POPENSC!**  **POPENSC!**  **POPENSC!**  **POPENSC!**  **POPENSC!**  **POPENSC!*  **POP	2	SONG IN A SOCIAL AND SEXUAL CONTEXT: VOCALIZATIONS SIGNAL IDENTITY AND RANK IN BOTH SEXES OF A	2016
A TEST OF THE HAPLOID SUSCEPTIBILITY HYPOTHESIS USING A SPECIES WITH NATURALLY OCCURRING VARIATION IN PLOIDY  N. Wilson-Rich, J.A. Pilowsky, B. Foo, T. Tien, F. Hester, and P. T. Starks  Insectes sociaux  Leadership & Community Service  **POPENSC!**  **POPENSC!*  **P		COOPERATIVE BREEDER	2010
PLOIDY N. Wilson-Rich, J. A. Pilawsky, B. Foo, T. Tien, F. Hester, and P. T. Starks  Leadership & Community Service  **TOpenSci**  **POCKAGE REVIEWER**  **Society for Open, Reliable, and Transparent Ecology & Evolutionary Biology (SORTEE)  **Society for Open, Reliable, and Transparent Ecology & Evolutionary Biology (SORTEE)  **Society for Open, Reliable, and Transparent Ecology & Evolutionary Biology (SORTEE)  **Society for Open, Reliable, and Transparent Ecology & Evolutionary Biology (SORTEE)  **Society for Open, Reliable, and Transparent Ecology & Evolutionary Biology (SORTEE)  **Society for Open, Reliable, and Transparent Ecology & Evolutionary Biology (SORTEE)  **Society for Open, Reliable, and Transparent Ecology & Evolutionary Biology (SORTEE)  **Society for Open, Reliable, and Transparent Ecology & Evolutionary Biology (SORTEE)  **Society for Open, Reliable, and Transparent Ecology & Evolution are series arising from Long Beach, CA, USA  **Long Beach, CA, USA  **Long Beach, CA, USA  **Polo Alto, CA, USA  **Polo		S. Keen, C. D. Meliza, J. Pilowsky, and D. R. Rubenstein	Frontiers in Ecology & Evolution
Leadership & Community Service  rOpenSci  PACKAGE REVIEWER  Society for Open, Reliable, and Transparent Ecology & Evolutionary Biology (SORTEE)  SORTEE  WEBSITE EDITOR & MEMBER  2025  Presentations  2024  Ecological Society of America, "Biases in parasite richness estimates arising from coinfection dynamics"  Ecology and Evolution of Infectious Disease, "epizootic: an R package for process-explicit spatial population models of wildlife disease"  2021 Ecological Society of Australia, "Simulating species range dynamics over long time scales"  2021 Ecological Society of America, "The ecology of cooperation in Polistes wasps"  Portland, OR, USA  Lectures & Teaching  2024 Process-Explicit Models in Disease Ecology, Guest Lecture at Skidmore College  Process-Explicit Models in Ecology, Guest Lecture at Fundamentals of Ecology and Evolution course  2021 Revenge of the Bisonl, Presentation at Ingenuity Convention  Adeloide, AU  2021 Evolution of Sex, Study Group Leader at Osher Institute  Medford, MA, USA  2025 Evolution of Altruism, Study Group Leader at Osher Institute  Medford, MA, USA  Honors & Awards  2023 Dean's Commendation for Dissertation Excellence, University of Adelaide  Adeloide, AU  Adeloide, AU	1		ON IN 2021
PACKAGE REVIEWER  Society for Open, Reliable, and Transparent Ecology & Evolutionary Biology (SORTEE)  SORTEE WEBSITE EDITOR & MEMBER  2025  Presentations  Ecological Society of America, "Biases in parasite richness estimates arising from coinfection dynamics"  Ecology and Evolution of Infectious Disease, "epizootic: an R package for process-explicit spatial population models of wildlife disease"  2021 Ecological Society of Australia, "Simulating species range dynamics over long time scales"  2021 Ecological Society of Australia, "Simulating species range dynamics over long time scales"  2021 Ecological Society of America, "The ecology of cooperation in Polistes wasps"  Portland, OR, USA  Process-Explicit Models in Disease Ecology, Guest lecture at Skidmore College  Process-Explicit Models in Ecology, Guest Lecture at Fundamentals of Ecology and Evolution course  2021 Revenge of the Bison!, Presentation at Ingenuity Convention  Adelaide, AU  2020 Evolution of Sex, Study Group Leader at Osher Institute  Medford, MA, USA  2021 Ecological Modeling, Graduate Instructor at Tufts University  Medford, MA, USA  Honors & Awards  2022 Dean's Commendation for Dissertation Excellence, University of Adelaide  Adelaide, AU  Adel		N. Wilson-Rich, J. A. Pilowsky, B. Foo, T. Tien, F. Hester, and P. T. Starks	Insectes sociaux
Presentations  Ecological Society of America, "Biases in parasite richness estimates arising from coinfection dynamics"  Ecology and Evolution of Infectious Disease, "epizootic: an R package for process-explicit spatial population models of wildlife disease"  Polo Alto, CA, USA  Ecological Society of America, "Simulating species range dynamics over long time scales"  Polo Alto, CA, USA  Ecological Society of America, "The ecology of cooperation in Polistes wasps"  Portland, OR, USA  Lectures & Teaching  2024 Process-Explicit Models in Disease Ecology, Guest lecture at Skidmore College Saratoga Springs, NY, USA  Process-Explicit Models in Ecology, Guest Lecture at Fundamentals of Ecology and Evolution course  Revenge of the Bison!, Presentation at Ingenuity Convention  Adelaide, AU  2021 Revenge of the Bison!, Presentation at Ingenuity Convention  Adelaide, AU  2021 Revenge of the Bison!, Study Group Leader at Osher Institute  Medford, MA, USA  2021 Evolution of Sex, Study Group Leader at Osher Institute  Medford, MA, USA  2025 Ecological Modeling, Graduate Instructor at Tufts University  Honors & Awards  2023 Dean's Commendation for Dissertation Excellence, University of Adelaide  Adelaide, AU  Adelaide, AU  Adelaide, AU  Adelaide, AU  Adelaide, AU  Adelaide Adelaide, AU	Lea	dership & Community Service	
Society for Open, Reliable, and Transparent Ecology & Evolutionary Biology (SORTEE)  **Presentations**  **Cological Society of America, "Biases in parasite richness estimates arising from coinfection dynamics"  **Ecology and Evolution of Infectious Disease, "epizootic: an R package for process-explicit spatial population models of wildlife disease"  **Palo Alto, CA, USA**  **2021 **Ecological Society of Australia, "Simulating species range dynamics over long time scales" Virtual Conference Ecological Society of Australia, "Simulating species range dynamics over long time scales" Portland, OR, USA**  **Portland, OR, USA**  **Lectures & Teaching**  **Portland, OR, USA**  **Process-Explicit Models in Disease Ecology, Guest lecture at Skidmore College Saratoga Springs, NY, USA**  **Process-Explicit Models in Ecology, Guest Lecture at Fundamentals of Ecology and Evolution course**  **Portland, OR, USA**  **Process-Explicit Models in Ecology, Guest Lecture at Fundamentals of Ecology and Evolution course**  **Process-Explicit Models in Ecology, Guest Lecture at Fundamentals of Ecology and Evolution of Sex, Study Group Leader at Osher Institute Medford, MA, USA**  **Process-Explicit Modeling, Presentation at Ingenuity Convention Adelaide, AU Medford, MA, USA**  **Process-Explicit Modeling, Graduate Instructor at Tufts University Medford, MA, USA**  **Honors & Awards**  **Portland, OR, USA**  **Portland, OR, US	rOpe	nSci	rOpenSci
Presentations  2024	Раска	GE REVIEWER	2025-
Presentations  2024	Socie	ety for Open, Reliable, and Transparent Ecology & Evolutionary Biology (SORTEE)	SORTEE
Ecological Society of America, "Biases in parasite richness estimates arising from coinfection dynamics"  Ecology and Evolution of Infectious Disease, "epizootic: an R package for process-explicit spatial population models of wildlife disease"  2021 Ecological Society of Australia, "Simulating species range dynamics over long time scales"  2027 Ecological Society of America, "The ecology of cooperation in Polistes wasps"  Portland, OR, USA  Process-Explicit Models in Disease Ecology, Guest lecture at Skidmore College Process-Explicit Models in Ecology, Guest Lecture at Fundamentals of Ecology and Evolution course  2021 Revenge of the Bison!, Presentation at Ingenuity Convention  Adelaide, AU 2016 Evolution of Sex, Study Group Leader at Osher Institute  Evolution of Altruism, Study Group Leader at Osher Institute  Ecological Modeling, Graduate Instructor at Tufts University  Medford, MA, USA  Honors & Awards  Dean's Commendation for Dissertation Excellence, University of Adelaide  Adelaide, AU 2021 Ingenuity Communications Award, Runner-Up, University of Adelaide  Adelaide, AU Adelaide	WEBSI	re editor & Member	2025-
Ecological Society of America, "Biases in parasite richness estimates arising from coinfection dynamics"  Ecology and Evolution of Infectious Disease, "epizootic: an R package for process-explicit spatial population models of wildlife disease"  2021 Ecological Society of Australia, "Simulating species range dynamics over long time scales"  2027 Ecological Society of America, "The ecology of cooperation in Polistes wasps"  Portland, OR, USA  Process-Explicit Models in Disease Ecology, Guest lecture at Skidmore College Process-Explicit Models in Ecology, Guest Lecture at Fundamentals of Ecology and Evolution course  2021 Revenge of the Bison!, Presentation at Ingenuity Convention  Adelaide, AU 2016 Evolution of Sex, Study Group Leader at Osher Institute  Evolution of Altruism, Study Group Leader at Osher Institute  Ecological Modeling, Graduate Instructor at Tufts University  Medford, MA, USA  Honors & Awards  Dean's Commendation for Dissertation Excellence, University of Adelaide  Adelaide, AU 2021 Ingenuity Communications Award, Runner-Up, University of Adelaide  Adelaide, AU Adelaide			
coinfection dynamics"  Ecology and Evolution of Infectious Disease, "epizootic: an R package for process-explicit spatial population models of wildlife disease"  Palo Alto, CA, USA  2021 Ecological Society of Australia, "Simulating species range dynamics over long time scales"  Virtual Conference Ecological Society of America, "The ecology of cooperation in Polistes wasps"  Portland, OR, USA  Process-Explicit Models in Disease Ecology, Guest lecture at Skidmore College Process-Explicit Models in Ecology, Guest Lecture at Fundamentals of Ecology and Evolution course  Revenge of the Bison!, Presentation at Ingenuity Convention Adelaide, AU  2016 Evolution of Sex, Study Group Leader at Osher Institute Evolution of Altruism, Study Group Leader at Osher Institute Evolution of Altruism, Study Group Leader at Osher Institute Medford, MA, USA  Dean's Commendation for Dissertation Excellence, University  Dean's Commendation for Dissertation Excellence, University of Adelaide Adelaide, AU  A	Pre	esentations	
Ecology and Evolution of Infectious Disease, "epizootic: an R package for process-explicit spatial population models of wildlife disease"  2021 Ecological Society of Australia, "Simulating species range dynamics over long time scales"  2017 Ecological Society of America, "The ecology of cooperation in Polistes wasps"  Portland, OR, USA  Lectures & Teaching  2024 Process-Explicit Models in Disease Ecology, Guest lecture at Skidmore College Saratoga Springs, NY, USA Process-Explicit Models in Ecology, Guest Lecture at Fundamentals of Ecology and Evolution course  2021 Revenge of the Bison!, Presentation at Ingenuity Convention  Adelaide, AU 2016 Evolution of Sex, Study Group Leader at Osher Institute  Evolution of Altruism, Study Group Leader at Osher Institute  Ecological Modeling, Graduate Instructor at Tufts University  Medford, MA, USA  Honors & Awards  Dean's Commendation for Dissertation Excellence, University of Adelaide  Adelaide, AU	-	<b>Ecological Society of America</b> , "Biases in parasite richness estimates arising from	Long Reach CA USA
spatial population models of wildlife disease"  2021 Ecological Society of Australia, "Simulating species range dynamics over long time scales" Virtual Conference 2017 Ecological Society of America, "The ecology of cooperation in Polistes wasps" Portland, OR, USA  Lectures & Teaching  2024 Process-Explicit Models in Disease Ecology, Guest lecture at Skidmore College Saratoga Springs, NY, USA Process-Explicit Models in Ecology, Guest Lecture at Fundamentals of Ecology and Evolution course  2021 Revenge of the Bison!, Presentation at Ingenuity Convention Adelaide, AU 2016 Evolution of Sex, Study Group Leader at Osher Institute Medford, MA, USA 2015 Evolution of Altruism, Study Group Leader at Osher Institute Medford, MA, USA 2015 Ecological Modeling, Graduate Instructor at Tufts University Medford, MA, USA  Honors & Awards  2023 Dean's Commendation for Dissertation Excellence, University of Adelaide Adelaide, AU 2021 Ingenuity Communications Award, Runner-Up, University of Adelaide Adelaide, AU 2024 Graduate Research Competition Winner, Tufts University	_	coinfection dynamics"	Long Beach, Cri, 63/1
spatial population models of wildlife disease"  2021 Ecological Society of Australia, "Simulating species range dynamics over long time scales"  2027 Ecological Society of America, "The ecology of cooperation in Polistes wasps"  2028 Process-Explicit Models in Disease Ecology, Guest lecture at Skidmore College  2029 Process-Explicit Models in Ecology, Guest Lecture at Fundamentals of Ecology and  2020 Evolution course  2021 Revenge of the Bison!, Presentation at Ingenuity Convention  2026 Evolution of Sex, Study Group Leader at Osher Institute  2027 Medford, MA, USA  2028 Evolution of Altruism, Study Group Leader at Osher Institute  2029 Medford, MA, USA  2020 Ecological Modeling, Graduate Instructor at Tufts University  2021 Medford, MA, USA  2022 Dean's Commendation for Dissertation Excellence, University of Adelaide  2023 Dean's Commendation Saward, Runner-Up, University of Adelaide  2024 Graduate Research Competition Winner, Tufts University  2026 Medford, MA, USA		<b>Ecology and Evolution of Infectious Disease</b> , "epizootic: an R package for process-explicit	Palo Alto, CA, USA
Ecological Society of America, "The ecology of cooperation in Polistes wasps"  Portland, OR, USA  Lectures & Teaching  2024 Process-Explicit Models in Disease Ecology, Guest lecture at Skidmore College Process-Explicit Models in Ecology, Guest Lecture at Fundamentals of Ecology and Evolution course  2021 Revenge of the Bison!, Presentation at Ingenuity Convention  2016 Evolution of Sex, Study Group Leader at Osher Institute  2015 Evolution of Altruism, Study Group Leader at Osher Institute  2016 Evolution of Altruism, Study Group Leader at Osher Institute  2017 Ecological Modeling, Graduate Instructor at Tufts University  Honors & Awards  2023 Dean's Commendation for Dissertation Excellence, University of Adelaide  2021 Ingenuity Communications Award, Runner-Up, University of Adelaide  2021 Graduate Research Competition Winner, Tufts University  Medford, MA, USA  Medford, MA, USA		spatial population models of wildlife disease"	1 410 1 110, 61, 63, 1
Lectures & Teaching  2024 Process-Explicit Models in Disease Ecology, Guest lecture at Skidmore College Process-Explicit Models in Ecology, Guest Lecture at Fundamentals of Ecology and Evolution course  2021 Revenge of the Bison!, Presentation at Ingenuity Convention Adelaide, AU  2016 Evolution of Sex, Study Group Leader at Osher Institute Medford, MA, USA  2015 Evolution of Altruism, Study Group Leader at Osher Institute Medford, MA, USA  2015 Ecological Modeling, Graduate Instructor at Tufts University Medford, MA, USA  Honors & Awards  2023 Dean's Commendation for Dissertation Excellence, University of Adelaide Adelaide, AU  2021 Ingenuity Communications Award, Runner-Up, University of Adelaide Adelaide, AU  2021 Graduate Research Competition Winner, Tufts University	2	<b>Ecological Society of Australia</b> , "Simulating species range dynamics over long time scales"	Virtual Conference
Process-Explicit Models in Disease Ecology, Guest lecture at Skidmore College Process-Explicit Models in Ecology, Guest Lecture at Fundamentals of Ecology and Evolution course  2021 Revenge of the Bison!, Presentation at Ingenuity Convention Adelaide, AU 2016 Evolution of Sex, Study Group Leader at Osher Institute Medford, MA, USA 2015 Evolution of Altruism, Study Group Leader at Osher Institute Medford, MA, USA 2015 Ecological Modeling, Graduate Instructor at Tufts University Medford, MA, USA  Honors & Awards  2023 Dean's Commendation for Dissertation Excellence, University of Adelaide 2021 Ingenuity Communications Award, Runner-Up, University of Adelaide Adelaide, AU 2014 Graduate Research Competition Winner, Tufts University Medford, MA, USA	4	2017 <b>Ecological Society of America</b> , "The ecology of cooperation in Polistes wasps"	Portland, OR, USA
Process-Explicit Models in Ecology, Guest Lecture at Fundamentals of Ecology and Evolution course  2021 Revenge of the Bison!, Presentation at Ingenuity Convention  Adelaide, AU 2016 Evolution of Sex, Study Group Leader at Osher Institute  Medford, MA, USA 2015 Evolution of Altruism, Study Group Leader at Osher Institute  Medford, MA, USA 2015 Ecological Modeling, Graduate Instructor at Tufts University  Medford, MA, USA  Honors & Awards  2023 Dean's Commendation for Dissertation Excellence, University of Adelaide 2021 Ingenuity Communications Award, Runner-Up, University of Adelaide 2014 Graduate Research Competition Winner, Tufts University  Medford, MA, USA  Medford, MA, USA	Lec	tures & Teaching	
Evolution course  2021 Revenge of the Bison!, Presentation at Ingenuity Convention  Adelaide, AU  2016 Evolution of Sex, Study Group Leader at Osher Institute  Medford, MA, USA  2015 Evolution of Altruism, Study Group Leader at Osher Institute  Medford, MA, USA  2015 Ecological Modeling, Graduate Instructor at Tufts University  Medford, MA, USA  Honors & Awards  2023 Dean's Commendation for Dissertation Excellence, University of Adelaide  2021 Ingenuity Communications Award, Runner-Up, University of Adelaide  Adelaide, AU  2014 Graduate Research Competition Winner, Tufts University  Medford, MA, USA	2	Process-Explicit Models in Disease Ecology, Guest lecture at Skidmore College	Saratoga Springs, NY, USA
Revenge of the Bison!, Presentation at Ingenuity Convention  2016 Evolution of Sex, Study Group Leader at Osher Institute  2015 Evolution of Altruism, Study Group Leader at Osher Institute  2016 Ecological Modeling, Graduate Instructor at Tufts University  Medford, MA, USA  2017 Medford, MA, USA  2018 Dean's Commendation for Dissertation Excellence, University of Adelaide  2020 Ingenuity Communications Award, Runner-Up, University of Adelaide  2021 Graduate Research Competition Winner, Tufts University  Medford, MA, USA  Adelaide, AU  Adelaide, AU  Medford, MA, USA		Process-Explicit Models in Ecology, Guest Lecture at Fundamentals of Ecology and	Millbrook NV 1154
2016 Evolution of Sex, Study Group Leader at Osher Institute  2015 Evolution of Altruism, Study Group Leader at Osher Institute  2015 Ecological Modeling, Graduate Instructor at Tufts University  Medford, MA, USA  Dean's Commendation for Dissertation Excellence, University of Adelaide  Adelaide, AU  2021 Ingenuity Communications Award, Runner-Up, University of Adelaide  Adelaide, AU  Graduate Research Competition Winner, Tufts University  Medford, MA, USA		Evolution course	Williarook, Wi, OSA
Evolution of Altruism, Study Group Leader at Osher Institute  Medford, MA, USA  Ecological Modeling, Graduate Instructor at Tufts University  Medford, MA, USA  Medford, MA, USA  Medford, MA, USA  Dean's Commendation for Dissertation Excellence, University of Adelaide  Adelaide, AU  Ingenuity Communications Award, Runner-Up, University of Adelaide  Adelaide, AU  Graduate Research Competition Winner, Tufts University  Medford, MA, USA	2		Adelaide, AU
Honors & Awards  2023 Dean's Commendation for Dissertation Excellence, University of Adelaide 2021 Ingenuity Communications Award, Runner-Up, University of Adelaide 2014 Graduate Research Competition Winner, Tufts University  Medford, MA, USA  Adelaide, AU Adelaide Adelaide, AU Medford, MA, USA	2	2016 <b>Evolution of Sex</b> , Study Group Leader at Osher Institute	Medford, MA, USA
Honors & Awards  2023 Dean's Commendation for Dissertation Excellence, University of Adelaide 2021 Ingenuity Communications Award, Runner-Up, University of Adelaide 2014 Graduate Research Competition Winner, Tufts University  Medford, MA, USA	2		Medford, MA, USA
2023Dean's Commendation for Dissertation Excellence, University of AdelaideAdelaide, AU2021Ingenuity Communications Award, Runner-Up, University of AdelaideAdelaide, AU2014Graduate Research Competition Winner, Tufts UniversityMedford, MA, USA	2	2015 <b>Ecological Modeling,</b> Graduate Instructor at Tufts University	Medford, MA, USA
2021 Ingenuity Communications Award, Runner-Up, University of Adelaide Adelaide, AU 2014 Graduate Research Competition Winner, Tufts University Medford, MA, USA	Но	nors & Awards	
2014 <b>Graduate Research Competition Winner</b> , Tufts University <i>Medford, MA, USA</i>	2	Dean's Commendation for Dissertation Excellence, University of Adelaide	Adelaide, AU
	2	Ingenuity Communications Award, Runner-Up, University of Adelaide	Adelaide, AU
2013 <b>Graduate Research Fellowship,</b> National Science Foundation <i>Medford, MA, USA</i>	2	Graduate Research Competition Winner, Tufts University	Medford, MA, USA
	4	2013 <b>Graduate Research Fellowship</b> , National Science Foundation	Medford, MA, USA

# **Leadership & Community Service**

rOpenSci rOpenSci

PACKAGE REVIEWER 2025-

Society for Open, Reliable, and Transparent Ecology & Evolutionary Biology (SORTEE)

WEBSITE EDITOR & MEMBER 2025-

# **Research Internships**

#### **European Doctoral School of Demography Fellow**

Odense, DK

SORTEE

SUPERVISOR: DR. JOHAN DAHLGREN

2017 - 2018

 Developed colorednoise R package · Coursework in demographic modeling

#### Data collection and visualization of coffee crop yields

Tufts University, Medford, MA, USA

SUPERVISOR: DR. AVERY COHN

- · Gathered and harmonized decades of coffee crop yield data from all coffee-producing countries
- Designed visualizations of coffee yield in space and time

### Florida Scrub Jay LTER at Archbold Biological Station

Venus, FL, USA

2012

SUPERVISOR: DR. REED BOWMAN

- Fieldwork monitoring scrub jay survival and reproduction
- · Spatial modeling of kin structure in intact and disturbed habitat

# Skills\_

**Programming** R, C++, Python, Julia, Bash, &TFX Web HTML5, CSS3, JS (Node/D3), Hugo

Management Git, Docker

**Graphics** Illustrator, Photoshop, InDesign

Languages English (fluent), Spanish (fluent), French (proficient), Danish (conversational)