JODY REIMER

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EDUCATION

PhD University of Alberta, Canada 2019
Department of Mathematical and Statistical Sciences
and Department of Biological Sciences
Mentors: Mark Lewis & Andrew Derocher

MSc University of Oxford, United Kingdom 2013
Mathematical Institute
Mentors: Philip Maini & Michael Bonsall

BA University of Manitoba, Canada 2011
Department of Mathematics

ACADEMIC APPOINTMENTS

2022– **Assistant Professor**, Department of Mathematics and School of Biological Sciences, University of Utah, Salt Lake City, United States of America

2019–2022 **Wylie Assistant Professor (Lecturer),** Department of Mathematics, University of Utah, Salt Lake City, United States of America

RESEARCH FOCUS AREAS

- Mathematical modeling of biological systems
- Analysis and simulation of dynamical systems models
- Uncertainty quantification for biological systems
- Optimization and optimal control (e.g., dynamic programming)
- Polar marine ecology, Great Salt Lake ecology, global change biology, natural resource management

PUBLICATIONS

Peer-reviewed publications

20. Poulsen, Grant R., Plunkett, Claire E., & **Reimer, J. R.** (2024) First passage times of long transient dynamics in ecology. *Bulletin of Mathematical Biology.* In press.

19. Arehart, E., **Reimer, J. R.**, & Adler, F. R. (2023). Strategy maps: Generalised giving-up densities for optimal foraging. *Ecology Letters,* 26(3):398-410. DOI: 10.1111/ele.14160

18. Swadling, K. M., Constable, A. J., Fraser, A. D., Massom, R. A., … **Reimer, J. R.**, … & Wotherspoon, S. (2023). Biological responses to change in Antarctic sea ice habitats. *Frontiers in Ecology and Evolution*, 10:1254. DOI: 10.3389/fevo.2022.1073823

17. **Reimer, J. R.**, Adler, F. R., Golden, K. M., & Narayan, A. (2022) Uncertainty quantification for ecological models with random parameters. *Ecology Letters.* 25(10):2232-2244. DOI: 10.1111/ele.14095

16. **Reimer, J. R.**, Arroyo-Esquivel, J., Jiang, J., Scharf, H. R., Wolkovich, E. M., Zhu, K., & Boettiger, C. (2021) Noise can create or erase long transient dynamics. *Theoretical Ecology.* 14(4), 685-695. DOI: 10.1007/s12080-021-00518-6

15. Berg, J., **Reimer, J. R.**, Smolko, P., Bohm, H., Hebblewhite, M., & Merrill E. (2021) Mothers' movements: Shifts in calving area selection by partially migratory elk. *Journal of Wildlife Management,* 85(7):1476-1489. DOI: 10.1002/jwmg.22099

14. Peers*, M. J. L., **Reimer*, J. R.**, Majchrzak, Y. N., Menzies, A. K., Studd, E. K., Boonstra, R., Kenney, A., Krebs, C. J., O'Donoghue, M., & Boutin, S. (2021) Contribution of late-litter juveniles to the population dynamics of snowshoe hares. *Oecologia.* 195:949-957. DOI: 10.1007/s00442-021-04895-x **(*shared first author)**

13. **Reimer, J. R.**, Ahmed, S. M., Brintz, B., Shah, R. U., Keegan, L. T., Ferrari, M. J., & Leung, D. T. (2021) The effects of using a clinical prediction rule to prioritize diagnostic testing on transmission and hospital burden: a modeling example of early Severe Acute Respiratory Syndrome Coronavirus 2. *Clinical Infectious Diseases.* 73(10):1822-1830. DOI: 10.1093/cid/ciab177

12. Nagy-Reis*, M. B., **Reimer*, J. R.,** Lewis, M. A., Jensen, W., & Boyce, M. S. (2021) Aligning Population Models with Data: Adaptive Management for Big Game Harvests. *Global Ecology and Conservation,* 26:e01501. DOI: 10.1016/j.gecco.2021.e01501 **(*shared first author)**

11. Johnson, A. C., **Reimer, J. R.,** Lunn, N. J., Stirling, I. McGeachy, D., & Derocher, A. E. (2020) Influence of sea ice dynamics on population energetics of Western Hudson Bay polar bears. *Conservation Physiology*, 8(1):coaa132. DOI: 10.1093/conphys/coaa132

10. Klappstein, N., Togunov, R., **Reimer, J. R.,** Lunn, N., & Derocher, A. E. (2020) Patterns of sea ice drift and polar bear (*Ursus maritimus*) movement in Hudson Bay. *Marine Ecology Progress Series*, 641:227-240. DOI: 10.3354/meps13293

9. Upham-Mills, E., **Reimer, J. R.,** Haché, S., Lele, S., & Bayne, E. (2020) Can singing rate be used to predict male breeding status of forest songbirds? A comparison of three calibration models. *Ecosphere*, 11(1):e03005. DOI: 10.1002/ecs2.3005

8. **Reimer, J. R.,** Mangel, M., Derocher, A. E., & Lewis, M. A. (2019) Matrix methods for stochastic dynamic programming in ecology and evolutionary biology. *Methods in Ecology and Evolution*, 10(11):1952-1961. DOI: 10.1111/2041-210X.13291 **[shortlisted for the Robert May Prize, 2019]**

7. **Reimer, J. R.,** Mangel, M., Derocher, A. E., & Lewis, M. A. (2019) Modelling optimal responses and fitness consequences in a changing Arctic. *Global change biology*, 25(10): 3450-346. DOI: 10.1111/gcb.14681

6. **Reimer, J. R.**, Caswell H., Derocher A. E., & Lewis M. A. (2019) Ringed seal demography in a changing climate. *Ecological applications*, 29(3):e01855. DOI: 10.1002/eap.1855

5. **Reimer, J. R.**, Brown H., Beltaos-Kerr E., & de Vries G. (2018) Evidence of intraspecific prey switching: stage-structured predation of polar bears on ringed seals. *Oecologia*, 189(1):133-148. DOI: 10.1007/s00442-018-4297-x

4. Yee, M., **Reimer, J. R.**, Lunn, N. J., Togunov, R. R., Pilfold, N. W., McCall, A. G., & Derocher, A. E. (2017) Polar bear (Ursus maritimus) migration from maternal dens in western Hudson Bay. *Arctic*, 70(3):319-327. DOI: 10.14430/arctic4668

3. **Reimer, J. R.**, Bonsall, M. B., & Maini, P. K. (2017) The critical domain size of stochastic population models. *Journal of mathematical biology*, 74(3):755-782. DOI: 10.1007/s00285-016-1021-5

2. **Reimer, J. R.**, Bonsall, M. B., & Maini, P. K. (2016) Approximating the critical domain size of integrodifference equations. *Bulletin of mathematical biology*, 78(1):72-109. DOI: 10.1007/s11538-015-0129-x

1. Malik, T., **Reimer, J. R.**, Gumel, A., Elbasha, E. H., & Mahmud, S. (2013) The impact of an imperfect vaccine and pap cytology screening on the transmission of human papillomavirus and occurrence of associated cervical dysplasia and cancer. *Mathematical Biosciences & Engineering*, 10(4):1173-1205. DOI: 10.3934/mbe.2013.10.1173

White papers

Dunbar, O., Hastings, A., Lin, G., Nadeau, A. Quaini, A., **Reimer, J. R.**, Rouleau, T., Ruiz-Mercado, G. (2022) Unraveling the climate vulnerability web: Integration of Physical, Biological, Human Social, and Economic Models in Time and Space. Created as part of the SIAM Convening on Climate Science, Sustainability, and Clean Energy.

HONORS AND AWARDS

2022 Honorable mention for Outstanding Paper Award (ESA, Theory Section)
2021 Contributed Talk Prize (Society for Mathematical Biology Annual Meeting 2021)
2021 Don H. Tucker Postdoctoral Fellow Award (U. of Utah, UT, USA)
2020 Outstanding Postdoc Award (U. of Utah, UT, USA)
2020 Shortlisted for the Robert May Prize (*Methods in Ecology and Evolution*)
2019 Anton Alexander Cseuz Gold Medal in Mathematics (U. of Alberta, AB, Canada)
2017 Izaak Walton Killam Memorial Scholarship (The Killam Trusts, Canada)
2017 3rd place winner in Elevator Pitch Competition (ArcticChange, QB, Canada)
2016 Alberta Innovates Technology Futures Graduate Scholarship (AITF, AB, Canada)
2016 2nd place winner in Poster Competition (SMS Conference, AB, Canada)
2016 Michael Smith Foreign Study Supplement (NSERC, Canada)
2016 ArcticNet Training Fund (ArcticNet Centre of Excellence, Canada)
2013 Vanier Canada Graduate Scholarship (NSERC, Canada)
2013 Graduate Scholarship top-up (Alberta Innovates Technology Futures, AB, Canada)
2013 President's Doctoral Prize of Distinction (U. of Alberta, AB, Canada)
2011 NSERC Postgraduate Scholarship (NSERC, Canada)
2011 Rhodes Scholarship (The Rhodes Trust, United Kingdom)

RESEARCH GRANTS

Successful grant applications

2022–2027 NSF Research Training Group (RTG) – Applied Mathematics
Title: Optimization and Inversion for the 21st Century Workforce
Role: Senior Personnel – responsible for 2 Arctic field expeditions and outreach to local high schools
Amount: $2,498,692.00

Unsuccessful grant applications

2023 PONANT Science Expedition Grant
Title: Antarctic Sea Ice Physics and Ecology in a Warming Climate
Role: co-PI, with Ken Golden (Dept. of Mathematics, U of Utah)
Requested amount: use of ship facilities on Antarctic field expedition

2022 Wilkes Center for Climate Science and Policy Incentive Seed Grant
Title: Biological resilience of Great Salt Lake microbialites to declining lake levels

Role: co-PI, with Michael Werner (School of Biological Sciences, U of Utah)
Requested amount: $48,500

2020 NSF proposal – Division of Mathematical Sciences – Mathematical Biology
Title: Mathematical Models of Sea Ice Microbial Ecology
Role: PI
Requested amount: $625,066

INVITED TALKS

* online talk

2024 U. C. Davis, USA. Mathematical Biology Seminar (Mar.)
2024 Mathematical Association of America Intermountain Seminar (Feb.)
2024 U. of Pennsylvania, USA*. Mathematical Biology Seminar (Feb.)
2024 Joint Mathematics Meeting. Invited special session talk as part of Dynamical Systems Modeling for Biological and Social Systems (Jan.)
2023 U. of Pennsylvania, USA*. Modeling Practices Across Disciplines Seminar (Mar.)
2022 AMS Western Sectional Meeting. Invited mini-symposium talk as part of Mathematical Modeling of Biological and Social Systems (Oct.)
2022 U. of Potsdam, Germany. BioMove Seminar Series (July)
2022 U. of Pennsylvania, USA*. Modeling Practices Across Disciplines Seminar (Mar.)
2022 Antarctic Sea Ice and Southern Ocean Seminar* (Feb.)
2022 U. C. Santa Cruz, USA*. Ecology and Evolutionary Biology Seminar (Jan.)
2021 U. C. Davis, USA*. Mathematical Biology Seminar (Nov.)
2021 U. of Leeds, UK*. Applied Mathematics Seminar (Oct.)
2021 SIAM Annual meeting*. Invited mini-symposium talk as part of Modeling Species Distributions in Ecosystems Altered by Climate Change (July)
2021 U. of Calgary, Canada*. Applied Mathematics Seminar (June)
2021 Institute for Science and Technology, Austria* (Feb.)
2021 U. of Washington, USA*. Applied Mathematics Seminar (Feb.)
2021 U. of Ottawa, Canada*. Applied Mathematics Seminar (Jan.)
2020 Cardiff University, UK*. Applied and Computational Maths Seminar (Nov.)
2020 U. of Minnesota, USA*. Mathematical Biology Seminar (Nov.)
2020 CDC working group on COVID healthcare modeling* (June)
2020 Utah State University, USA. Mathematical biology seminar (Feb.)
2020 Utah State University, USA. WILD seminar series (Jan.)
2019 U. of Tasmania, Australia. Institute for Marine and Antarctic Studies seminar series (Sept.)
2017 Alberta Mathematics Dialogue Day. Edmonton, Canada (May)
2016 U. of Amsterdam, Netherlands. Institute for Biodiversity and Ecosystem Dynamics seminar series (Dec.)

OTHER SELECT CONFERENCE PRESENTATIONS

* online talk

2021	Annual Society for Mathematical Biology (SMB) meeting*. (June)
2020	Annual Society for Mathematical Biology (SMB) meeting*. (Aug.)
2020	Canadian Applied and Industrial Mathematics Society (CAIMS) and Pacific Institute for the Mathematical Sciences (PIMS) Coronavirus Modelling Conference*. (June)
2018	SIAM Mathematics of Planet Earth meeting. Philadelphia, USA. (Sept.)
2017	ArcticChange conference. Quebec City, Canada. (Dec.)
2017	PIMS Graduate Summit in Mathematical Biology and Applied PDEs. Jasper, Canada. (May)
2016	PIMS Young Researchers Conference. Edmonton, Canada. (June)
2016	Seminaire de Mathematiques Superieures: Dynamics of Biological Systems. Edmonton, Canada. (June)
2015	ArcticNet Annual Scientific Meeting. Vancouver, Canada. (Dec.)
2015	Association of Canadian Universities for Northern Studies, Student Conference. Calgary, Canada. (Nov.)
2013	Isaac Newton Institute for Mathematical Sciences, Women in Mathematics Day. Cambridge, United Kingdom. (Apr.)

TEACHING

Instructor

BIOL 6500 – Advanced Statistical Modeling for Biologists – spring 2023, spring 2024
MATH 117 – Calculus for Biologists – fall 2022, fall 2024
MATH 1030 – Intro to Quantitative Reasoning – spring 2022
MATH 1210 – Calculus I – spring 2020 (x2), fall 2020, spring 2021
MATH 1220 – Calculus II – fall 2021

Directed Reading Course Faculty Mentor (MATH 6910)

Fall 2023 – Ecological forecasting. 5 students.
Spring 2023 – Mathematical models of sea ice microbial ecology. 1 student.
Fall 2020 – Mathematical models of polar physics and biology, with K. M. Golden. 1 student.

Teaching Assistant (various undergraduate mathematics courses)

Bamfield Marine Sciences Centre; Ecological Models and Data course	Summer 2017
University of Alberta; Mathematics Department	2015 – 2017
University of Oxford; Mathematical Institute	2011 – 2012
University of Manitoba; Mathematics Department	2009 – 2011

STUDENT MENTORSHIP

PhD Students

2023– Lauren Whelton (Biology). Modeling microbialite ecology in the Great Salt Lake.

2023– Hannah Meier (Biology). Modeling primary production in the Great Salt Lake. Secondary advisor: J. Wang

2023– Anthony Jajeh (Mathematics). Biophysical feedbacks between sea ice algae and extracellular polymeric substances. Secondary advisor: K. M. Golden

2023– Abby Hardin-Kohli (Mathematics). Forecasting microbial ecology in extreme environments.

2019–2021 Julie Sherman (Mathematics). Modeling nematode ecology in the Dry Valleys of Antarctica. Primary advisor: K. M. Golden

Undergraduate Students

2024– Kaitlyn Landers. Optimal monitoring of waterfowl in the Great Salt Lake. Undergraduate biology honors project.

2024– Kitty Saravanan. Exploring mathematical models for social justice. ACCESS student project.

2024– Nathan Gregor. Integrating microbial data into mechanistic models (literature review). Undergraduate biology research assistant.

2024– Lucy Leary. Long transient dynamics in ecology. Undergraduate math honors project.

2020– Nicole Forrester (Mathematics). Optimal polar bear movement on a fractal landscape. Co-advisor: K. M. Golden. Manuscript in prep.

2020–2022 Grant Poulsen (Mathematics and Computer Science). Influence of stochasticity on ecological models with long transient dynamics, resulting in publication [20]. Undergraduate senior project.

2020–2021 Linda Zhao (Biology and Mathematics). Integrating math and biology in K-12 education. Internship project in collaboration with Polar Bears International.

Summer, 2020 Spencer Tennant (Environmental Science). Pilot lab studies on sea ice structure. Summer internship.

2019–2020 Kayla Stewart (Mathematics). Nutrient-phytoplankton models of sea ice algal dynamics. Research Experiences for Undergrads research project. Co-advisor: K. M. Golden.

2019–2020 Anna Hyde (Mathematics). Extracellular polymeric substances and sea ice algae. ACCESS student project. Co-advisor: K. M. Golden.

Fall, 2019 Spencer Fajardo (Mathematics). Directed reading in mathematical biology.

2018-2020 Natasha Klappstein (Biology). Sea ice drift and polar bear movement, resulting in publication [10]. Undergraduate senior project. Co-advisor: A. E. Derocher.

2016–2017 Hannah Brown (Mathematics). Stage structured predation models, resulting in publication [5]. Undergraduate senior project. Co-advisors: G. de Vries and E. Beltaos-Kerr.

2016–2017 Meredith Yee (Biology). Polar movement around maternal dens, resulting in publication [4]. Undergraduate senior project. Co-advisor: A. E. Derocher.

High School Students

2023– Anthony Lee. Inverse problems and uncertainty quantification of sea ice algae models. Co-advisor: K. M. Golden.

Summer, 2020 Tarun Martheswaran. Optimal control of infectious diseases. Summer research experience.

GRADUATE STUDENT COMMITTEES

Math
Theresa Sheets (PhD defense, summer 2023)
Patrick Talley (Oral exam, spring 2023)
Anil Cengiz (Oral exam, spring 2023)

Biology
Tegan Lengyel (Capstone exam, spring 2024)
Amy Buxton (Capstone exam, spring 2023, qualifying exam, spring 2024)
Madelyn Purnell (Capstone exam, spring 2023)
David Blount (Committee meeting, fall 2022)

WORKSHOP AND WORKING GROUP PARTICIPATION

* denotes invited participation

2022 Ecological Forecasting Workshop
University of Boston (June, 2022)

2020-2024 *Markov decision processes in non-autonomous socio-ecological systems
Patuxent Wildlife Research Center, MD, USA. (working group)

2020 NIMBIoS 2020, Adaptive Management Tutorial

NIMBIoS, online. (Oct. 2020)

2019 *NSF Workshop to Advance Theory in Ecology
Pennsylvania State University, PA, USA. (Oct. 2019)

2019 NIMBIoS Investigative Workshop: Transients in Biological Systems
NIMBIoS, TN, USA. (May 2019)

PROFESSIONAL SERVICE

2024– Advisory board member for the Society for Mathematical Biology (SMB) Population Dynamics, Ecology and Evolution (PDEE) Subgroup

2021– Associate Editor for Models in Ecology and Evolution (Frontiers in Ecology and Evolution)

Organizational roles

2025 SLMath Summer Graduate School on Mathematics of Climate, Sea Ice, and Polar Ecosystems. 2 weeks (dates and location TBD). Co-organizing with K. M. Golden.

2022 Steering committee member. SIAM Convening on Climate Science, Sustainability, and Clean Energy. Washington DC. (Oct. 2022) Resulted in the Report of the SIAM Convening on Climate Science, Sustainability, and Clean Energy in addition to 9 white papers with funding priority recommendations.

2015–2016 Organizing committee member. Pacific Institute for the Mathematical Sciences (PIMS) Young Researchers Conference. Edmonton, Canada. (June 2016)

Committee service

2022–2023, 2023-2024 Undergraduate Scholarship, Engagement and Research (USER) committee member, School of Biological Sciences, University of Utah

2022–2023, Spring 2024 EDI committee member, School of Biological Sciences, University of Utah

2022–2023, Spring 2024 Colloquium committee member, Dept. of Mathematics, University of Utah (Committee chair in 2024)

2021 Applied Math Seminar organizer, Dept. of Mathematics, University of Utah

2021 Search committee member. RISE Global Youth Scholarships.

2017–2019 Founder and organizer of Philosophy Pints, a monthly meeting of graduate students at the University of Alberta to discuss scientific best practices, challenges, and ethics

2014-2015 University of Alberta International Peer Program mentor, Canada.

2012–2013 Graduate student representative. Good Practice Steering Committee. Mathematical Institute, University of Oxford.

2010–2011 Student committee member. Canadian Mathematical Society (CMS).

Contributed Peer Reviews

The American Naturalist, Animal Behaviour, Applied Mathematical Modelling, Ecological Applications, Ecology Letters, Evolutionary Ecology, Frontiers in Ecology and Evolution, Journal of Theoretical Biology, Methods in Ecology and Evolution, North Pacific Research Board (grant proposal review), Oxford Bibliographies, Polar Research, Theoretical Ecology

Professional Memberships

Society for Mathematical Biology (SMB), American Mathematical Society (AMS), Association for Women in Mathematics (AWM), Ecological Society of America (ESA), Society for Industrial and Applied Mathematics (SIAM)

OTHER (RE)PRODUCTIVE WORK

2023 Birth of child with corresponding 1 year tenure clock extension

POLAR FIELD EXPERIENCE

2024 & 2026 Sea ice fieldwork on the fast ice outside of Utqiagvik (formerly Barrow), Alaska. Team of 7 trainees, led by Ken Golden and I, funded as part of an NSF Research Training Grant in Applied Math.

2018 Sea ice and marine fieldwork from the icebreaker CCGS Amundsen in Baffin Bay, Canada. Participant in the Sentinel North PhD Field School: Shedding light on Arctic Marine ecosystem services. (June 2018)

2018 Polar bear fieldwork, by helicopter, on the fast and pack ice in Hudson Bay, Canada. (Apr. 2018) Fieldwork led by Environment and Climate Change Canada

2017 & 2016 Arctic naturalist for One Ocean Expeditions, a ship-based tour operator, guiding through the Canadian Arctic and Greenland (Aug. 2016 & 2017)

2016 Sea ice fieldwork on the fast ice near Sveagruva, Svalbard as part of the course Ecosystems in Ice-covered Waters. University of the North in Svalbard, Norway. (May 2016)

2014 Polar bear fieldwork, by helicopter, near Churchill, Canada. (Sept. 2014) Fieldwork led by Environment and Climate Change Canada.

OUTREACH AND PUBLIC ENGAGEMENT

2022, 2024 Guest speaker in undergrad. Mathematical Biology course, Whitworth University

2020, 2021 2022 Speaker for ACCESS, an undergraduate program to support the success of underrepresented students in STEM fields

2020–2021 Middle and high school outreach with minority-serving institutions in Salt Lake city; organized and hosted 5 integrated STEM sessions using mathematics to answer questions about polar ecology and climate change

2014–2022 Outreach with Polar Bears International, including:

- Creation of 4 integrated mathematics lesson plans for K-12 students, motivated by polar biology, with undergraduate student intern, Linda Zhao. (2020–2021)
- two trips to Churchill, MB, Canada, to be a scientific panelist for their week-long live-streamed Tundra Connections Program (2014, 2018)
- >10 live video outreach sessions with classrooms and community groups
- 8 recorded presentations available on YouTube, including *At the top of the world with polar bears* (2018), *What is a model? And how are models used with polar bears?* (2015), *Polar bears by the numbers + math challenge* (2014)
- 4 education blog entries, including *Understanding polar bears – with math!* (2017) and *It's the little things: from ice algae to polar bears* (2019)

2014–2016 Departmental outreach coordinator, Society for Graduate Mathematics and Statistics, University of Alberta, Canada

Media Coverage

Written articles:

Counting on mathematicians to help save the planet, part of the BBC and International Science Council series *Unlocking Science.* Sarah Griffiths, Nov. 2021.

Canadian Geographic, Audio recordings of birdsong could help estimate breeding status, Angelica Haggert, March 2020

CBC News, How listening to birdsong may help scientists conserve at-risk species, Madeleine Cummings, Feb. 2020

El Ágora, La pérdida de hielo en el océano Ártico expande epidemias entre la fauna, Laura Chaparro, Nov. 2019

Hakai Magazine, The Precarious Protection of Alaska's Ringed Seals, Sarah Keartes, June 2019

Hakai Magazine, Bearded Seals Are Maturing Younger and Having More Pups, Sarah Keartes, May 2019

The Wildlife Society newsletter, Predictions of less snow may be bad news for ringed seals, Dana Kobilinsky, Feb. 2019

Forbes, Climate Change Is Melting Arctic Sea Ice - And That's Endangering Ringed Seal Populations, Fiona McMillan, Jan. 2019

Science Daily, An icy forecast for ringed seal populations; new mathematical models show dramatic decreases in ringed seal populations due to projected low snow conditions, Jan. 2019

Video features:

A Math Professor in Antarctica? Featured in a video highlighting mathematics and polar research as part of the University of Utah's *Frontiers of Science* event.

Sentinel North International PhD School - Baffin Bay, Nunavut. July 2018. Featured in the video synopsis of the expedition.