

Etienne ROUBY

Curriculum Vitae

Institute of Arctic and Alpine Research (INSTAAR)
University of Colorado Boulder
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RESEARCH INTERESTS

I am a population ecologist and conservation biologist. I study how long-lived animals respond to climate change and human pressures, and whether their populations can adapt fast enough to persist. I develop Bayesian methods that estimate survival and reproduction from imperfect data, such as carcasses, catches and individual monitoring. I then build population models to project viability and evolution. My study systems include seabirds, fish and marine mammals. My results have informed ACAP advice, IUCN Red List assessments, and the French Senate's 2025 review of the winter fishing closure for dolphins in the Bay of Biscay. At CU Boulder, I taught Conservation Biology (EBIO/ENVS 3040) as instructor of record in spring 2026.

EDUCATION

Ph.D. IN POPULATION ECOLOGY |     2019–2022

Centre d'Études Biologiques de Chizé, Observatoire PELAGIS, La Rochelle Université, France

Dissertation: Population dynamics of elusive species: the case of the common dolphin in the North-East Atlantic Ocean

Advisors: M. Authier and V. Ridoux

[Ph.D. materials](#) | [Defense committee report](#)

MASTER'S DEGREE IN MARINE ECOLOGY |  2016–2018

Sorbonne Université Sciences, Paris, France

BACHELOR'S DEGREE IN BIOLOGY & POPULATION ECOLOGY |  2013–2016

Université Côte d'Azur, Nice, France

PROFESSIONAL EXPERIENCE

POSTDOCTORAL ASSOCIATE |   2024–Present

Institute of Arctic and Alpine Research (INSTAAR), University of Colorado Boulder

POSTDOCTORAL INVESTIGATOR |  2023–2024

Biology Department, Woods Hole Oceanographic Institution

Postdoctoral researcher on NSF ORCC award #2222057 (PI: S. Jenouvrier; co-PI: J. Van de Walle)

RESEARCH ENGINEER |   2022–2023

Observatoire Pelagis, La Rochelle Université, France

RESEARCH ASSISTANT |   2018–2019

Observatoire Pelagis, La Rochelle Université, France

PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

11. Ventura, F., Che-Castaldo, C., Catry, P., Delord, K., Kuepfer, A., Mohring, B., Oppel, S., Phillips, R., **Rouby, E.**, Ummenhofer, C., Weimerskirch, H., Wood, A., Barbraud, C., and Jenouvrier, S. (2026). Flying under the radar: the demographic importance of immatures in long-lived seabird populations. *Biological Conservation*. [Article here](#)
10. Sun, R., **Rouby, E.**, Weimerskirch, H., Barbraud, C., Delord, K., Ummenhofer, C., and Jenouvrier, S. (2026). Subtropical anticyclone impacts life-history traits of a marine top predator. *Geophysical Research Letters*. [Article here](#)
9. Mohring, B., Potts, J.R., Wilson, A.J., Réale, D., Phillips, R.A., Weimerskirch, H., Barbraud, C., Bennison, A., Delord, K., Wood, A.G., Peroteau, S., **Rouby, E.**, Ventura, F., and Patrick, S.C. (2026). Environmental variability shapes life-history trade-offs within and between populations of a long-lived seabird. *Ecology Letters*, 29, e70384. [Article here](#)
8. **Rouby, E.**, Van de Walle, J., Plard, F., Delord, K., Aubry, L.M., Barbraud, C., Bonnet, T., Weimerskirch, H., and Jenouvrier, S. (2026). Drivers of age at first reproduction in the wandering albatross (*Diomedea exulans*): demographic factors, environmental conditions and sex-specific responses. *Journal of Animal Ecology*, 00, 1–17. [Article here](#)
7. **Rouby, E.** (2026). Why 50-year studies are needed in a 3-year-grant world. *Nature Reviews Biodiversity*, 2, 75. [Article here](#) | [Invited Comment](#)
6. **Rouby, E.**, Plard, F., Ridoux, V., *et al.* (2025). Longevity collapse in dolphins: a growing conservation concern in the Bay of Biscay. *Conservation Letters*, 18(5), e13142. [Article here](#)
5. **Rouby, E.**, Authier, M., Cam, E., Siebert, U., and Plard, F. (2024). Addressing temporal trends in survivorship from cross-sectional sampling designs: a modelling framework with applications for megafauna conservation. *Ecological Modelling*, 490, 110647. [Article here](#)
★ 2024–2025 Best Young Researcher Award ★
4. **Rouby, E.**, Dubroca, L., Cloatre, T., Demaneche, S., Genu, M., Cohen, H., Peltier, H., Ridoux, V., and Authier, M. (2022). Estimating bycatch from non-representative samples (II): a case study of pair-trawlers and common dolphins in the Bay of Biscay. *Frontiers in Marine Science*, 8. [Article here](#)
3. Gilbert, L., **Rouby, E.**, Tew-Kaï, E., Spitz, J., Peltier, H., Quilfen, V., and Authier, M. (2022). Spatiotemporal models highlight influence of oceanographic conditions on common dolphin bycatch risk in the Bay of Biscay. *Marine Ecology Progress Series*, 679, 195–212. [Article here](#)
2. Authier, M., **Rouby, E.**, and MacLeod, K. (2021). Estimating cetacean bycatch from non-representative samples (I): a simulation study with regularized multilevel regression and post-stratification. *Frontiers in Marine Science*, 8. [Article here](#)
1. **Rouby, E.**, Ridoux, V., and Authier, M. (2020). Flexible parametric modeling of survival from age-at-death data: a mixed linear regression framework. *Population Ecology*, 63(1), 108–122. [Article here](#)
★ 2022 Best Young Author Award ★

REPORTS FOR FUNDERS

Jenouvrier, S., Brooks, C., **Rouby, E.**, *et al.* (2024 & 2025). Understanding organismal behavioral responses to climate change to forecast eco-evolutionary dynamics of albatross populations. *National Science Foundation (NSF) ORCC Report*.

Rouby, E. (2022). Common dolphin (*Delphinus delphis*) population status in the Bay of Biscay. *Département de l'Eau et de la Biodiversité Report*.

Rouby, E. (2021). Bycatch quantification of the common dolphin (*Delphinus delphis*) in the Bay of Biscay. *Département de l'Eau et de la Biodiversité Report*.

Rouby, E. (2020). New methodology to quantify survival rates in stranded marine mammals. *Département de l'Eau et de la Biodiversité Report*.

REPORTS FOR CONSERVATION GROUPS

Rouby, E., Barbraud, C., Collet, J., Delord, K., Chambon, J.A., Wotherspoon, S., and Fischer, J.H. (2026). ACAP advice on IUCN Red List status (Amsterdam albatross). *ACAP for BirdLife International*.

Rouby, E., Barbraud, C., Collet, J., Delord, K., Makhado, A., Masotla, M., Ryan, P.G., Chambon, J.A., Wotherspoon, S., and Fischer, J.H. (2026). ACAP advice on IUCN Red List status (Indian yellow-nosed albatross). *ACAP for BirdLife International*.

Rouby, E. (2024). Viability of the common dolphin population in the North-East Atlantic Ocean. *International Whaling Commission (IWC) Bycatch Group Report*.

Rouby, E. (2018–2022). Harbor porpoise and common dolphin population status and conservation actions. *Ministère de la Transition Écologique et Solidaire*.

POLICY AND ADVISORY ROLES

WORKING GROUP EXPERT <i>Agreement on the Conservation of Albatrosses and Petrels (ACAP)</i>	2026
POLICY IMPACT – French Senate  <i>Dolphin longevity results cited in the Senate's review of the winter fishing closure for dolphins in the Bay of Biscay (Report no. 525, 2024–2025)</i>	2025
BOARD MEMBER <i>Ross Sea Research Coordination Network</i>	2025–Present
INVITED CONTRIBUTOR <i>Agreement on the Conservation of Albatrosses and Petrels (ACAP)</i>	2025
GUEST SPEAKER <i>International Whaling Commission</i>	2020, 2022, 2024
GUEST SPEAKER <i>International Council for the Exploration of the Sea, Working Group on Bycatch</i>	2020–2022
GUEST SPEAKER <i>International Council for the Exploration of the Sea, Working Group on Marine Mammal Ecology</i>	2021
GUEST SPEAKER <i>Expert panel on mitigating human impacts on marine mammals, World Marine Mammal Conference</i>	2019

AWARDS

Best Young Researcher , Ecological Modelling, Elsevier	2025
Best Young Author , Population Ecology, Wiley	2022
Best Ph.D. Candidate Talk , Wildlife Biology and Ecology Doctoral School, La Rochelle Université, France	2021
Best Ph.D. Candidate Talk , Wildlife Biology and Ecology Doctoral School, La Rochelle Université, France	2020

FUNDING & GRANTS

Gordon and Betty Moore Foundation  <i>Postdoctoral salary award (PI: C. Brooks)</i>	Awarded \$95,000	2026–2027
Massachusetts Institute of Technology (MIT)   <i>Travel grant, SCAR Open Science Conference, Oslo</i>	Awarded \$1,000	2026
Marine Mammal Commission 	Finalist \$75,000	2024–2025

TEACHING EXPERIENCE

INSTRUCTOR OF RECORD <i>Conservation Biology (EBIO/ENVS 3040), University of Colorado Boulder</i> Faculty Course Questionnaire results	Spring 2026
WORKSHOP DEVELOPER <i>EvoDemo-Hyper workshop: open, hands-on course on eco-evolutionary matrix population models, Evolutionary Demography Society meeting (EvoDemoS11), Fort Collins, CO Workshop website</i>	June 2026
INSTRUCTOR <i>R for Reproducible Scientific Analysis workshop, Woods Hole Oceanographic Institution Materials</i>	June 2024
INSTRUCTOR <i>How to use LaTeX and Overleaf for dissertation writing, La Rochelle Université</i>	July 2022
INSTRUCTOR <i>R and R Markdown for wildlife ecology studies, La Rochelle Université</i>	June 2022
TEACHING ASSISTANT <i>Animal Biology and Physiology (focus on mammals), La Rochelle Université</i>	2019–2021
TEACHING ASSISTANT <i>Plant Biology and Physiology, La Rochelle Université</i>	2019–2021

MENTORING

Hayley KWASNIEWSKI – Ph.D. student, Department of Environmental Studies, University of Colorado Boulder (Brooks Lab) <i>Growth of Antarctic toothfish from otoliths</i>	2025–Present
Hayden SIMMONS – Undergraduate student, Ecology and Evolutionary Biology, University of Colorado Boulder	2026–Present
Flavio CRISTALDINI – Undergraduate student, Life Sciences (Population Ecology track), Université Côte d'Azur, France	2026–Present
Ruijiao SUN – Postdoctoral researcher, Woods Hole Oceanographic Institution <i>Demographic analyses of albatross life-history traits; co-authored publication in Geophysical Research Letters (2026)</i>	2023–2024
Lola GILBERT – Master's student, La Rochelle Université, France <i>Oceanographic drivers of dolphin bycatch risk; first-authored publication in Marine Ecology Progress Series (2022)</i>	2019–2020
Graduate mentoring – Alumni meetings for graduate students, Sorbonne Université, Paris, France	2023–2025

PROFESSIONAL SERVICE & LEADERSHIP

POSTDOCTORAL REPRESENTATIVE – INSTAAR advancement visit. Selected by the INSTAAR Director to present the postdoctoral and early-career experience to a prospective donor, in support of philanthropic funding for INSTAAR	Oct 2026
ACTIVE MEMBER – AIISTAARs Task Force, Institute of Arctic and Alpine Research. Organized community cooking classes for the institute	2025–Present
GUEST EDITOR – BMC Environmental Science Details	2025–2026
INCLUSION TRAINING – BAJEDI (Belonging, Accessibility, Justice, Equity, Diversity and Inclusion) workshop, Polar Science Early Career Community Office, University of Colorado Boulder Certificate ; WoGEMS (Women and Gender Minorities) annual meeting, Woods Hole Oceanographic Institution	2024
CO-COORDINATOR – French Marine Mammal Stranding Network, Observatoire Pelagis	2019–2021

INVITED TALKS & SEMINARS

From foraging to fitness: behavioral drivers of evolutionary adaptation in albatrosses under climate change , French National Albatross meeting, France	2025
Eco-evolutionary dynamics of albatrosses under climate change , University of Colorado Boulder, Department of Environmental Studies	2025
From Stranding to Soaring: leveraging long-term data for marine megafauna conservation , Woods Hole Oceanographic Institution (WHOI), Department of Biology; Monterey Bay Aquarium Research Institute (MBARI), Moss Landing, CA	2024
Changes in albatross age at first reproduction due to climate change , French National Albatross meeting, France	2024
The common dolphin population is no longer viable in the North-East Atlantic Ocean: insights from demography , International Whaling Commission, Working Group on Small Cetaceans, Slovenia	2024

CONFERENCE ACTIVITY

TALKS

- Evolutionary rescue in the Wandering albatross (*Diomedea exulans*).** The Wildlife Society conference. Des Moines, IA, USA (accepted). November 2026
- Unlocking demographic potential in Antarctic fish.** Scientific Committee on Antarctic Research open science conference. Oslo, Norway. August 2026
- Dynamics of age at first reproduction in the Wandering albatross (*Diomedea exulans*).** Society of Evolutionary Demography, EvoDemoS11. Fort Collins, CO, USA. June 2026
- Environmental birth effects and mate availability as causes of changes in Wandering albatross (*Diomedea exulans*) age at first reproduction.** Ecological Society of America annual meeting. Baltimore, MD, USA. August 2025
- Decline of viability in the common dolphin population of the North-East Atlantic Ocean.** World Marine Mammal Conference. West Palm Beach, FL, USA. August 2022
- How to highlight vital rate changes using cross-sectional monitoring?** International Statistical Ecology Conference. Cape Town, South Africa. July 2022

POSTERS

- Flexible parametric modeling of survival from age-at-death data: a mixed linear regression framework.** World Marine Mammal Conference. Barcelona, Spain. December 2019
- Survivorship of two harbor porpoise (*Phocoena phocoena*) populations in French waters: a high spatial disparity.** Ecological Modelling young researchers conference. Montpellier, France. May 2018

OUTREACH

- Okay, but does age bring wisdom?**  August 2026
Okay... but birds? Podcast
- Elementary school outreach** December 2024
Vineyard Haven, MA, USA
- Ask a Scientist** July 2024
Woods Hole Oceanographic Institution
- Science festival** June 2022
Centre d'Études Biologiques de Chizé
- Ma thèse en 180 secondes (3-Minute Thesis)** 2021
National contest, La Rochelle Université
- Les têtes chercheuses** February 2020
La Rochelle Université and Museum of Natural History
- Scientific movie festival** October 2019
La Rochelle Université and association of graduate students

PROFESSIONAL AFFILIATIONS

The Evolutionary Demography Society (EvoDemo)	2026–Present
The Ecological Society of America (ESA)	2024–2026
The Society for Marine Mammalogy (SMM)	2019–2025
European Cetacean Society (ECS)	2019–2023
French Society of Ecology and Evolution (SFEE)	2018–2022

TECHNICAL SKILLS

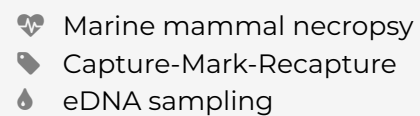
PROGRAMMING



DATA ANALYSIS



FIELDWORK EXPERTISE



LANGUAGES

French: Native
Italian: Basic notions

English: Fluent (professional and scientific)
Spanish: Basic notions

REFERENCES

Ph.D. REFERENCES

Dr. Matthieu AUTHIER
 Senior Research Scientist
La Rochelle Université, France
Observatoire Pelagis, France
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Prof. Vincent RIDOUX
 Emeritus Professor
La Rochelle Université, France
Centre d'Études Biologiques de Chizé, France
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POSTDOC REFERENCES

Prof. Cassandra BROOKS
 Associate Professor
University of Colorado Boulder,
Department of Environmental Studies
Brooks Lab, CO, USA
Cassandra.Brooks@colorado.edu

Dr. Stéphanie JENOUVRIER
 Senior Research Scientist
Woods Hole Oceanographic Institution (WHOI),
MA, USA
Massachusetts Institute of Technology (MIT), MA,
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Biology Department, FLEDGE Lab
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