AMANDINE GAMBLE

PhD DVM MSc

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EDUCATION

PhD in Population Biology and Ecology – Montpellier University, France 2018

Doctorate of Veterinary Medicine –Alfort National Veterinary School, France 2016
Erasmus Exchange Program – School of Veterinary Science, University of Liverpool, UK

MSc in Ecophysiology and Animal Behavior – Strasbourg University, France 2015

RESEARCH EXPERIENCE

Multiscale modeling of infectious disease dynamics in multihost systems 2019-2022
Postdoctoral researcher – Department of Ecology and Evolutionary Biology, University of California Los Angeles (UCLA), CA, USA – Supervisor: James Lloyd-Smith (UCLA)

Large gulls as sentinels to track infectious agent circulation 2018-2019
Postdoctoral researcher – Center for Evolution and Functional Ecology, National Center for Scientific Research (CNRS) / Montpellier University, France – Supervisor: Craig Hebert (Environment and Climate Change Canada) and Thierry Boulinier (CNRS)

Ecology of infectious agent circulation in colonial birds: inference using serological approaches 2015-2018
PhD student – Center for Evolution and Functional Ecology, CNRS / Montpellier University, France – Supervisor: Thierry Boulinier (CNRS)

Impact of the nutritional state after a prolonged fast on the foraging trip efficiency in king penguin 2015
MSc and DVM theses – Hubert Curien Pluridisciplinary Institute, CNRS – Strasbourg University, France – Supervisors: Yves Handrich and Jean-Patrice Robin (CNRS)

GRANTS AND FELLOWSHIPS

FUNDING METRICS Cumulated funding > 510,000 US dollars as principal investigator (PI) or co-PI

Darwin Plus, The Overseas Territories Environment and Climate Fund – 'Pathogens as a threat to seabirds in the Falkland Islands' – $128,000 *Short-listed*

Newton International Fellowship, The Royal Society – 'Contribution of introduced species to multi-host epidemiological dynamics' – $89,100 2022-2024

Collaboratory Fellowship, Institute of Quantitative and Computational Biosciences (UCLA) – $24,000 2021-2022

3R Grant, UCLA Animal Research Committee – 'More insights from fewer experiments: modernizing the use and re-use of animal data in virology' (role equivalent to co-PI but not eligible) – $10,000 2021

Coronavirus Rapid Response Grant, UCLA AIDS Institute – 'Quantitative tools to maximize insights from small-sample virological studies of SARS-CoV-2' (role equivalent to co-PI but not eligible) – $50,000 2020

Small Research Grant, British Ecological Society – 'Circulation of infectious agents in the world population of an endangered penguin and implications for conservation' – $6,970 2020

Research Grant, French Polar Institute – ECOPATH 1151 'Circulation of infectious agents in (sub)antarctic colonial vertebrate populations: surveillance, understanding and management implications' (role equivalent to co-PI but not eligible) – $250,000 2019-2023

Academic Grant, Shackleton Scholarship Fund – 'Infectious diseases as a threat to wildlife in the Southern Ocean' – $6,970 2018

Exploration Fund Grant, The Explorer Club – 'Infectious diseases as a threat to wildlife in the Southern Ocean' – $1,200 2018

Workshop Participation Grant, NSF Infectious Disease Evolution Across Scales Network – Immunity across scales workshop, UK – $500 2018

Exchange Grant, NSF Infectious Disease Evolution Across Scales Network – Research visit at UCLA, CA, USA – $3,320 2018

Immersion Grant, Mediterranean Center for the Environment and Biodiversity – Research visit at Colorado State University and US Department of Agriculture National Wildlife Research Center, CO, USA – $530 2018

Travel Grant, International Arctic Science Committee – POLAR 2018 meeting, Switzerland – $720 2018

Training and Travel Grant, British Ecological Society – Ecology and Evolution of Infectious Diseases Meeting, UK – $630 2018

Environmental Studies Budget Grant, Falkland Islands Government – 'Infectious diseases as a threat to seabirds on New Island' (role equivalent to PI but not eligible) – $5,570 2017

Teaching Scholarship, Montpellier University – $6,470 2016-2018

Doctoral Scholarship, French Ministry of Research and Doctoral College of Montpellier University – Fully funded PhD – $53,735 2015-2018

Erasmus Scholarship, European Union – 3-month exchange at University of Liverpool, UK – $1,250 2014

Bourse aux Idées, Mérial – 'Impact of captivity and human handling on the stress level of bobtail lizards' – $1,190 2013

AWARDS

Dissertation Prize from the Doctoral College of Montpellier University for the PhD dissertation 'Ecology of infectious agent circulation in colonial birds: inference using serological approaches' 2019

Silver Medal from the French Veterinary Academy for the veterinary thesis 'Impact of the nutritional state after a prolonged fast on the foraging trip efficiency in king penguins' 2016

PEER-REVIEWED PUBLICATIONS

PUBLICATION METRICS Web of Science: 4,432 citations, H-index of 8 · Google Scholar: 9,534 citations, H-index of 10
* indicates equal contribution

20. Ruiz-Aravena M.*, McKee C.*, **Gamble A.**, Lunn T., Morris A., Snedden C.E., Yinda K.C., Port J., Buchholz D.W., Yeo Y.Y., Faust C., Jax E., Dee L., Jones D., Kessler M., Falvo C., Crowley D., Bharti N., Brook C.E., Aguilar H.C., Peel A.J., Restif O., Schountz T., Parrish C.R., Gurley E.S., Lloyd-Smith J.O., Hudson P., Munster V.J. & Plowright R.K. (2021). Ecology, evolution, and spillover of coronaviruses from bats. *Nature Reviews Microbiology*, in press

19. Ponchon A., **Gamble A.**, Ahtiainen I.V., Tornos J., Delord K., Barbraud C., Travis J.M.J., Weimerskirch H. & Boulinier T. (2021). Similar at-sea behaviour but different habitat use between failed and successful breeding albatrosses. *Marine Ecology Progress Series* 678, 183-196

18. **Gamble A.**, Yeo Y.Y.*, Butler A.A.*, Tang H., Snedden C.E., Mason C.T., Buchholz D.W., Bingham J., Aguilar H.C. & Lloyd-Smith J.O. (2021) Drivers and distribution of henipavirus-induced syncytia: what do we know? *Viruses* 13, 1755

17. **Gamble A.***, Fischer R.J.*, Morris D.H., Yinda C.K., Munster V.J. & Lloyd-Smith J.O. (2021) Heat-treated virus inactivation rate depends strongly on treatment procedure: illustration with SARS-CoV-2. *Applied and Environmental Microbiology* 87, e00314-21

16. Yeo Y.Y., Buchholz D.W., **Gamble A.**, Jager M. & Aguilar H.C (2021). Headless henipaviral receptor binding glycoproteins reveal inefficient Cedar virus fusion modulated by the head/stalk interface. *Journal of Virology* 95, e00666-21

15. Snedden C.E.*, Makanani S.K.*, Schwartz S.T., **Gamble A.**, Blakey R.V., Borremans B., Helman S.K., Espericueta L., Valencia A., Endo A., Alfaro M.E. & Lloyd-Smith J.O. (2021). SARS-CoV-2: cross-scale insights from ecology and evolution. *Trends in Microbiology* 29, 593-605

14. Morris D.H.*, Yinda K.C.*, **Gamble A.***, Rossine F.W., Huang Q., Bushmaker T., Fischer R.J., Matson M.J., van Doremalen N., Vikesland P.J., Marr L.C., Munster V.J. & Lloyd-Smith J.O. (2021). Mechanistic theory predicts the effects of temperature and humidity on inactivation of SARS-CoV-2 and other enveloped viruses. *eLife* 10, e65902

13. Barbosa A., Varsani A., Morandini V., Grimaldi W., Vanstreels R.E.T., Diaz J.I., Boulinier T., Dewar M., González-Acuña D., Gray R., McMahon C.R., Miller G., Power M., **Gamble A.*** & Wille M.* (2021). Risk assessment of SARS-CoV-2 in Antarctic wildlife. *Science of the Total Environment* 755, 143352

12. **Gamble A.**, Weimerskirch H. & Boulinier T. (2020). Seabirds blinded by ticks. *Frontiers in Ecology and the Environment* 18, 322

11. Borremans B., **Gamble A.**, Prager K.C., Helman S.K., McClain A.M., Cox C., Savage V. & Lloyd-Smith J.O. (2020). Quantifying antibody kinetics and RNA shedding during early-phase SARS-CoV-2 infection. *eLife* 9, e60122

10. Fischer R.J.*, Morris D.H.*, van Doremalen N., Sarchette S., Matson J., Bushmaker T., Yinda C.K., Seifert S., **Gamble A.**, Williamson B., Judson S., de Wit E., Lloyd-Smith J.O. & Munster V.J. (2020). Effectiveness of N95 respirator decontamination and reuse against SARS-CoV-2 virus. *Emerging Infectious Diseases* 26, 2253

9. Jaeger A.*, **Gamble A.***, Lagadec E.*, Lebarbenchon C., Bourret V., Tornos J., Barbraud C., Delord K., Weimerskirch H., Thiebot J.-B., Boulinier T. & Tortosa P. (2020). Impact of annual bacterial epizootics on albatross population on a remote island. *EcoHealth*, 17, 194-202

8. van Doremalen N.*, Bushmaker T.*, Morris D.H.*, Holbrook M.G., **Gamble A.**, Williamson B.N., Tamin A., Harcourt J.L., Thornburg N.J., Gerber S.I., Lloyd-Smith J.O., de Wit E. & Munster V.J. (2020). Aerosol and surface stability of SARS-CoV-2 as compared with SARS-CoV-1. *New England Journal of Medicine* 382, 1564-1567

7. **Gamble A.**, Bazire R., Delord K., Barbraud C., Jaeger A., Gantelet H., Thibault E., Lebarbenchon C., Lagadec E., Tortosa P., Weimerskirch H., Thiebot J.-B., Garnier R., Tornos J. & Boulinier T. (2020). Movements of an apex consumer among and within endangered seabird colonies: opportunities for pathogen spread. *Journal of Applied Ecology* 57, 367-378

6. **Gamble A.**, Garnier R., Chambert T., Gimenez O. & Boulinier T. (2020). Next-generation serology: integrating cross-sectional and capture-recapture approaches to infer disease dynamics. *Ecology* 101, e02923

5. Sanz-Aguilar A., Payo-Payo A., Rotger A., Moutailler S., Igual J.M., Miranda M.A., Torres M., Picorelli V., **Gamble A.** & Boulinier T. (2019). Infestation of small seabirds by *Ornithodorus maritimus* ticks: effects on chick body condition, reproduction and associated infectious agents. *Tick and Tick-borne Diseases* 11, 101281

4. **Gamble A.**, Garnier R., Jaeger A., Thibault E., Gantelet H., Tortosa P., Bourret V., Thiebot J.-B., Delord K., Weimerskirch H., Tornos J., Barbraud C. & Boulinier T. (2019). Exposure of albatrosses to the avian cholera agent leads to a short-lived immune response: implications for disease surveillance and management. *Oecologia* 189, 939-949

3. **Gamble A.**, Ramos R., Parra-Torres Y., Mercier A., Galal L., Pearce-Duvet J.M.C., Villena I., Montalvo T., Gonzalez-Solis J., Hammouda A., Oro D., Selmi S. & Boulinier T. (2019). Exposure of yellow-legged gulls to *Toxoplasma*

gondii along the Western Mediterranean coasts: tales from a sentinel. *International Journal for Parasitology: Parasites & Wildlife* 8, 221-228

2. Bourret V., **Gamble A.**, Tornos J., Jaeger A., Delord K., Barbraud C., Tortosa P., Kada S., Thiebot J.-B., Thibault E., Gantelet H., Weimerskirch H., Garnier R. & Boulinier T. (2018). Vaccination protects endangered albatross chicks against avian cholera. *Conservation Letters* 11, e12443

1. Boulinier T., Kada S., Ponchon A., Dupraz M., Dietrich M., **Gamble A.**, Bourret V., Duriez O., Bazire R., Tornos J., Tveraa T., Chambert T., Garnier R. & McCoy K. D. (2016). Migration, prospecting, dispersal? What host movement matters for infectious agent circulation? *Integrative and Comparative Biology* 56, 330-342

TEACHING

University of California Los Angeles (Los Angeles, CA, USA)

Co-instructor – *Statistical Tools & Concepts for Molecular Biologists* (postgraduate class class; in person) 2022

Instructor – *Introduction to MATLAB* (workshop; hybrid) 2021-2022

Teaching assistant – *Introduction to R & Data Visualization* (workshop; online) 2021

Course design – Overview of statistics for ecology and behavior – For *Introduction to Ecology & Behavior* (upper-division undergraduate class) 2021

Guest lecture – Infectious diseases: how do they emerge and become pandemic? – For *Biology & Social Justice* (upper-division undergraduate class; online) 2021

Teaching Assistant – *Introduction to R in Ecology & Evolutionary Biology* (postgraduate bootcamp; in person) 2020-2021

Guest lecture – Infectious diseases: how do they emerge and become pandemic? – For *Biology & Social Justice* (upper-division undergraduate class; online) 2020

Montana State University (Bozeman, MT, USA)

Guest lecture – Serological investigations in the time of COVID-19: insights from wildlife disease ecology and clinical studies – For *Disease Ecology & Spillover* (undergraduate and postgraduate class; online) 2020

Guest lecture – Using serology to infer eco-epidemiological processes in wild populations – For *Disease Ecology & Spillover* (undergraduate and postgraduate class; in person) 2019

Montpellier University (Montpellier, France)

Teaching assistant – *Integrative Biology* (undergraduate class; in person) 2018

Teaching assistant – *Descriptive Statistics* (undergraduate class; in person) 2017-2018

Independent workshops

Workshop – *Wildlife Disease Surveillance: Epidemiology, Ecology, and Practical Tools* (conservation partners; hybrid) 2018

MENTORING AND SUPERVISION

GRADUATE STUDENTS

Romain Bazire (MSc in Ecology and Biodiversity Management, Montpellier University; main supervisor: Thierry Boulinier) – 'Brown skua movements and avian cholera circulation on Amsterdam Island' (data analysis) 2016

UNDERGRADUATE STUDENTS

Caitlin Cox (UCLA) – 'Improving dispersal estimation in wild populations using serological data' (modeling study and data analysis), and 'titeR: Bayesian titer inference with R' (software development) 2021-2022

Aubrey Butler (UCLA) – 'Mapping henipavirus-induced syncytium formation *in vivo*' (literature review) 2020

Hubert Tang (UCLA) – 'Mapping henipavirus-induced syncytium formation *in vivo*' (literature review) 2020

Augustin Clessin (Ecole Normale Supérieure, Lyon, France; main supervisor: Thierry Boulinier) – 'Assessing the costs and benefits of different management strategies in an epidemiological context: the case of avian cholera on Amsterdam Island' (modeling study) 2018-2020

Jessica Kasamoto (John Hopkins University, MD, USA), via the Bruins in Genomics Program (UCLA) – 'Using mathematical models to investigate the infection dynamics of henipaviruses in cell culture' (modeling study) 2019

Natashia Benjamin (University of the District of Columbia, DC, USA), via the Bruins in Genomics Program (UCLA) – 'Using mathematical models to investigate the infection dynamics of henipaviruses in cell culture' (modeling study) 2019

RESEARCH ASSISTANTS

Multiple overwintering field assistants on Amsterdam Island (Indian Ocean) Since 2016

Multiple field assistants on Hornøya (Barents Sea) 2017-2018

Multiple field assistants on the Mediterranean coasts 2017-2018

PRESENTATIONS AND MEETING PARTICIPATIONS

INVITED CONFERENCE TALKS

Using serology to infer eco-epidemiological processes in seabird communities. 3rd World Seabird Conference, Australia (online) 2021

Diseases of albatrosses on Amsterdam Island: the interest of combining approaches. POLAR 2018, Switzerland 2018

Opportunistic feeders as sentinels for the circulation of infectious agents in spatial contexts. Waterbird Society annual meeting, Iceland 2017

CONTRIBUTED CONFERENCE TALKS

Investigating native and introduced predators' involvement in pathogen maintenance and spread within and among endangered seabird colonies. 3rd World Seabird Conference, Australia (online) 2021

Are introduced rodents involved in disease outbreaks threatening subantarctic wildlife. 69th Wildlife Disease Association Meeting, Spain (online) 2021

Integrating demographic and epidemiological data improves dispersal quantification. EUropean Union for Bird RINGing Analytical Meeting, Canada (online) 2021

Circulation of avian cholera among endangered seabirds: the predating and scavenging brown skua as an epidemiological bridge on Amsterdam Island? Seabird Group Conference, UK 2018

Diseases threatening polar seabirds: from immuno-ecology to conservation. POLAR 2018, Switzerland 2018

Optimization of sampling designs in eco-epidemiological studies based on antibody detection in sentinel species: the case of large gulls. 4th Young Natural History Scientists' meeting, France 2017

Exposure of yellow-legged gulls to *Toxoplasma gondii* along the Western Mediterranean coasts: tales from a sentinel. Sfécologie, France 2016

CONTRIBUTED POSTERS AND TWITTER PRESENTATIONS

Are introduced rodents involved in disease outbreaks threatening subantarctic wildlife? Ecology Across Borders, UK (online) 2021

SARS-CoV-2 exposure dose predicts incubation time in a mouse model. World Microbe Forum (online) 2021

Modeling the relationship between pathogen dose and symptomatology: illustration with SARS-CoV-2 in humanized mice. Ecology and Evolution of Infectious Diseases Meeting, France (online) 2021

Migration, foraging, prospecting, dispersal... What host movement matters for infectious agent circulation? 6th World Seabird Twitter Conference (online) 2020

Next Generation Serology: integrating cross-sectional and capture-recapture approaches to infer disease dynamics. 68th Wildlife Disease Association Meeting, CA, USA 2019

Integrating data across scales to model the within-host dynamics of emerging viruses. Ecology and Evolution of Infectious Diseases Meeting, NJ, USA 2019

Combining approaches to understand avian cholera dynamics in seabirds: implications for conservation. Ecology and Evolution of Infectious Diseases Meeting, UK 2018

Optimization of sampling designs in eco-epidemiologic studies based on the detection of antibodies in colonial vertebrates. Ecological Research Network and LTER-France joint conference, France 2017

Optimization of sampling designs in eco-epidemiologic studies based on the detection of antibodies in colonial vertebrates. EUropean Union for Bird RINGing Analytical Meeting, Spain 2017

Influence de l'état nutritionnel après un jeûne prolongé sur l'efficacité du voyage alimentaire chez le manchot royal. 2nd Colloque d'ÉcoPhysiologie Animale, France 2015

INVITED SEMINARS

Muddy boots and mechanistic inference: integrated approaches for innovative solutions to infectious disease, Department of Public and Ecosystem Health, Cornell University, NY, USA 2022

From muddy boots to mechanistic inference: advancing disease ecology through quantitative approaches, Department of Ecology and Evolutionary Biology, University of Connecticut, CT, USA (online) 2022

From muddy boots to mechanistic inference: modeling infectious diseases in lab and field systems. Institute for Modeling Collaboration and Innovation, University of Idaho, ID, USA (online) 2022

A mechanistic model predicts the effect of exposure dose on disease development: an illustration with SARS-CoV-2 in mice. AIDS Institute, University of California Los Angeles, CA, USA (online) 2022

Muddy boots and integrated models: finding innovative solutions to seabirds' infectious diseases with quantitative ecology. School of Natural Resources and the Environment, University of Arizona, AZ, USA (online) 2022

Investigating multi-host pathogen dynamics on Subantarctic islands: an open-sky laboratory. Institute of Ecology and Environmental Sciences, France (online) 2021

Advancing disease ecology through quantitative approaches. State University of New York, College of Environmental Science and Forestry, NY, USA (online) 2021

Linking exposure dose to infectious disease development using mechanistic models. Institute for Quantitative and Computational Biosciences, University of California Los Angeles, CA, USA (online) 2021

Linking data across scales to identify determinants of viral fitness and pathogenicity: benefits, challenges and solutions. National Health Institute Rocky Mountain Laboratories, MT, USA 2019

Combining approaches to understand avian cholera dynamics in an albatross colony. Fish, Wildlife, and Conservation Biology Department, Colorado State University, CO, USA 2018

Combining experimental and simulation-based approaches to manage avian cholera dynamics in albatross colonies. US Department of Agriculture National Wildlife Research Center, CO, USA 2018

Infectious diseases in albatrosses: from basic immuno-ecology to perspectives for conservation. South Atlantic Environmental Research Institute, Falkland Islands 2018

Symposium and thematic session organization

What determines host species roles in multi-host disease dynamics? Ecology Across Borders, UK (hybrid) 2021

The ecology of host-parasite interactions in seabirds: combining approaches to understand eco-epidemiological dynamics and inform conservation decisions, 3rd World Seabird Conference, Australia (online) 2021

Polar Wildlife Health Webinar of the Scientific Committee for Antarctic Research (online) 2020

Invited participations in workshops and working group meetings

Polar Wildlife Health Webinar of the Scientific Committee for Antarctic Research (online) 2020

Durable Interaction Ecology Network, Immuno-ecology Group Meeting, France 2017

Durable Interaction Ecology Network, Tick and Tick-borne Diseases Group Meeting, France 2016

Professional service

Peer-review

Journal reviewer 47 reviews for 21 journals: *Journal of Applied Ecology* · *Journal of Animal Ecology* · *Journal of Wildlife Diseases* · *Epidemics* · *Epidemiology and Infection* · *Pathogens and Disease* · *Viruses* · … (more on Publons)

Grant reviewer Swiss National Science Foundation (2) · Croatian Science Foundation (1)

Award committee member 69th Wildlife Disease Association Meeting (Student Poster Presentation Award)

Working groups and advising

Wildlife Health Monitoring Group of the Scientific Committee for Antarctic Research Since 2020

External Advisor for the 10-year Management Plan of the French Southern Lands National Nature Reserve and the National Action Plan for the Amsterdam Albatross 2017

Professional societies and organizations

Ecological Society of America · British Ecological Society · Société Française d'Ecolgie et d'Evolution · Wildlife Disease Association (core member of the UCLA Chapter) · American Society for Microbiology · R Ladies

Institutional service

Advisory Board of the Institute of Quantitative and Computational Biosciences (UCLA) – Postdoctoral representative 2021-2022

Advisory Board of the Mediterranean Environment Research Observatory (Montpellier University) – Doctoral student representative 2016-2018

Outreach

Invited blog posts and newspaper articles

Tracking predator movements to understand pathogen spread. *Nature Research Ecology and Evolution Community*, 1 November 2020

Next-generation serology: integrating cross-sectional and capture-recapture approaches to infer disease dynamics. *The Bulletin of the Ecological Society of America* 101, e01670 2020

Predator and scavenger movements as opportunities for pathogen spread among endangered seabirds. *The Applied Ecologist's Blog*, 21 January 🔗 French translation also available 🔗 2020

Tracking predator and scavenger movements to understand pathogen spread among endangered seabirds. *Blog of the Zone Atelier Antarctique LTSER*, 9 January 🔗 2020

Investigating the cause of seabird deaths on New Island. *Penguin News*, 10 August 2018

PUBLIC TALKS AND SCHOOL PRESENTATIONS

QBio-EDGE: Empowering Diversity and Growth in Education in Quantitative Biology – Organization and delivery of scientific presentations and workshops in K-12 schools in the Los Angeles agglomeration 2021-2022

Skype a Scientist – Presentation of the work of a scientist in K-12 schools (Ontario Pathfinders Girl Guides, Ontario, Canada · Alice King Community School Albuquerque, New Mexico, USA · St. Francis de Sales, Lake Zurich, Illinois, USA) Since 2020

Café des Science – Comprendre et contrôler les pandémies zoonotiques en intégrant écologie, virologie et mathématiques, Consulate General of France in Los Angeles, California, USA (online) 🔗 2020

Infectious diseases in seabirds: from basic eco-immunology to conservation. Falkland Islands Chamber of Commerce, Falkland Islands 2019

MEDIA COVERAGE AND INTERVIEWS

IN THE PRESS – *National Geographic* · *The New York Times* · *The Telegraph* · *Hakai Magazine* · *Reuters* · *Ars Technica* · *abc10* · *Sciences et Avenir* · *Science et Vie* · *Information.dk* · *El Ágora* · …

ON THE RADIO AND PODCASTS – *Science Vs* (scientific advising) · *KNX* (scientific advising)

ON TELEVISION – *France 2* (interview) · *BBC Brasil* (scientific advising)

SKILLS

MODELING AND DATA ANALYSIS Bayesian inference and maximum likelihood estimation · Hierarchical models · Compartmental models and ordinary differential equations · Capture-recapture modeling · Occupancy modeling · Integrated modeling · Tracking data analysis · Data simulation

PROGRAMMING AND SOFTWARE R · STAN · MATLAB · LaTeX · MARK (capture-recapture) · E-SURGE (capture-recapture) · PRESENCE (occupancy)

FIELDWORK Isolated sites · Capture and handling of wild animals · Animal tagging · Biologger deployment · Biological sample collection from wild animals (blood, swabs, etc.) · Animal necropsy · Electronic notebook development

Main field campaigns:

2019	New Island, Falkland Islands, Southern Atlantic Ocean (6 weeks, leader)
2019	Kerguelen Islands, Southern Indian Ocean (9 weeks, co-leader)
2018	New Island, Falkland Islands, Southern Atlantic Ocean (6 weeks, solitary)
2017	Crozet Islands, Southern Indian Ocean (9 weeks, co-leader)
2017	Hornøya, Barents Sea (6 weeks, co-leader)
2016	Amsterdam Island, Southern Indian Ocean (9 weeks, co-leader)
2016	Hornøya, Barents Sea (7 weeks, assistant)

LABORATORY Immunoassays · Microbiology

LANGUAGES French (native) · English (fluent)