

## Prof. Dr. Deborah M. Leigh

### Personal Information

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ORCID:0000-0003-3902-2568

Google scholar: [eXQPLVkJAAAAJ](https://scholar.google.com/citations?user=eXQPLVkJAAAAJ)

Personal Website: [deborahmleigh.weebly.com](http://deborahmleigh.weebly.com)

British Citizen

English (Native speaker)/French/German(A2)

### Research Interests

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Conservation genetics, Biodiversity monitoring, Genomics, Adaptation, Macrogenetics

### Education

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05/2013-20/09/2017 *Conservation genomics of the Alpine ibex*  
PhD, University of Zurich, Switzerland  
URPP PhD funding program. Supervisors: Lukas Keller/Andreas Wagner.

09/2011-11/2012 MRes Ecology, Evolution and Conservation  
Imperial College London, UK (Distinction)  
Supervisors: Prof Isabel Smallgange, Dr Patricia Brekke

09/2008-06/2011 BSc Biological Sciences Hons. Zoology,  
University of Edinburgh, UK (First Class)  
Honours thesis supervisor: Prof. Per Smiseth

### Employment (4.9 years/58.5 Effective months of full-time work since PhD as of 01/03/24)

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07/2024 *Genomic Biomonitoring*  
**Associate Professor**, Senckenberg and Göthe University

03/2022-04/2024 *Assisted migration in white oaks: mapping drought adaptation.*  
Scientist, WSL, Switzerland. SNSF/Biodiversa funded project: ACORN.  
Lead: Dr. Christian Rellstab

09/2021-02/2022 *Assisted migration in white oaks: mapping drought adaptation*  
Postdoctoral Fellowship, WSL, Switzerland.  
SNSF/Biodiversa funded project: ACORN.  
PI: Dr. Christian Rellstab

03/2019-09/2021 *Chestnut blight biocontrol: CHV1 intra-host diversity in the lab and field.*  
Postdoctoral Fellowship, WSL, Switzerland.  
SNSF funded project: Dynamics of virus infection in mycovirus-mediated  
biological control of a fungal pathogen. PI: Dr. Daniel Rigling

08/2017-09/2018 *Arctic Seabird Population Genomics.*  
Postdoctoral Fellowship, Queen's University, Canada.  
NSERC funded: Using modern genomics to minimize long-term impacts  
of resource development on Arctic seabirds. PI: Prof. Vicki Friesen

- 05/2013-09/2017 PhD Candidate, University of Zurich, Switzerland
- 10/2012-02/2013 Field research assistant. Zoological Society of London.  
Remote position. New Zealand. PI: Dr John Ewen/Dr Patricia Brekke
- 07/2011-08/2011 Soay Sheep Project field assistant. University of Edinburgh.  
Remote position. St Kilda, UK. Supervisor: Jill Pilkington
- 07/2011-09/2011 Lab technician. University of Edinburgh. UK.  
Supervisor: Prof. Per Smiseth
- 06/2010-06/2011 Field assistant. Scottish Natural Heritage. UK.  
Supervisor: Dr Ellen Rotheray

### **Active memberships in scientific societies, fellowships in renowned academies**

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- USGS Powell Centre Macrogenetics Group (founding member, since 2021)
- IUCN SSC Conservation Genetics Specialist Group (steering committee since 04/23; invited member since 11/21)
- GeoBON "Genetic composition working group" (invited member since 05/20)
- ISSI International Team Genes from Space (invited member since 01/24)
- ESEB and BES (ordinary member)

### **Prizes and Awards**

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- 1) Gulbenkian Prize for Humanity 2022\*. Awarded to IPBES and IPCC. \**As a contributing author to IPBES.*
- 2) Wiley "Top Cited Paper 2019-2020."
- 3) Wiley "Top Downloaded Paper 2018-2019."
- 4) Evolution SSE's W. D. Hamilton Award finalist (2018)
- 5) Queen's Postdoc Travel Award (2018) €650
- 6) ConGenomics. Portugal. Best Talk Award (of 53 talks 2015)
- 7) Funded place to attend Polygenic Adaptation Summer School, Zurich (2017)
- 8) European Science Foundation. ConGenomics. Travel Grant (2016) €600
- 9) European Science Foundation Workshop Place (2015). For the ESF B@G winter school.
- 10) Imperial College London Bursary for top entering MSc students. €1130. ~30 competitors.
- 11) Ashworth Prize. For highest ranked Zoology Graduate at the University of Edinburgh. €230. Ranked 2 of 51 competitors. (2011)
- 12) William Turner Prize. Award for outstanding academic achievement/highest ranking third-year student. €230. ~200 competitors. (2010)

### **Institutional responsibilities**

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- 02/2023 Seminar host for Lara Urban. WSL.
- 2021-2023 Genomics Journal club organizer. WSL.
- 06/2022 Seminar host for Dr Chloe Schmidt.
- 05/2022 Seminar host for Dr Evelyn Jensen.

- 29/07/2021 Seminar host for Karla Peranic.  
2019/11/13 Seminar host for Prof Anna-Liisa Laine.  
2015-2017 PhD representative for UZH Institute of Evolutionary Biology and Environmental Studies.  
2015-2017 Mittelbau representative (PhD and Postdocs) for the hiring committee for the “Succession of Prof. Bernhard Schmid/Hiring of Prof Anna-Liisa Laine.”  
2015 Contributor and PhD participant for UZH IEU external department evaluation.  
2015-2017 “Good Food Society” co-organiser of monthly events that promoted inter-group socialisation.  
2014-2015 PhD genomics journal club, co-organiser.  
2014-2019 Regular seminar host (Dr J Davey, Dr A Runemark, Prof AL Laine, Prof M Beaumont).  
2011-2012 Silwood Park Campus Events team and organiser.

### **International Conference and Workshop Organisation**

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- 1) *ConGen24. European Conservation Genetics meeting.* (08/2024) Scientific Committee
- 2) *World Biodiversity Forum 24.* (06/2024) Session organiser.
- 3) *ConGen22. European Conservation Genetics meeting.* (30/08/2022-2/09/2022) Scientific Committee
- 4) *NSERC Strategic Meeting*(19/10/2017- 21/10/2017) Co-organiser  
Organised a two-day stakeholder’s meeting and workshop for academics and conservation practitioners working on Canadian Arctic Seabirds. (30 attendees)
- 5) *UZH Evolutionary Biology PhD Retreat* (1/06/2015-3/06/2015) Co-organiser  
Three-day work shop for all PhD students in the UZH Evolutionary Biology program. (60 attendees)
- 6) *URPP Conservation Genomics Mini Symposium* (14/03/2014) Organiser  
Two-day event with external talks from experts (Prof. Fred Allendorf, Prof. Mark Beaumont and Prof. Mike Bruford). Attendees from over seven institutes and universities. (100+ attendees)

### **Conference Talks and Poster Presentations** (limited to only those where I was presenter)

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- 09/2024 ConGen 2024, Lausanne, Switzerland. “Best practices for genetic and genomic data archiving.” Poster.
- 06/2024 World Biodiversity Forum. Davos, Switzerland. “A framework to include ESU within the IUCN redlist.” Representing IUCN SSC Conservation Genetics.
- 1/2024 Preparing forests for the future. PopGroup St Andrews, UK. Oral Presentation.
- 07/2023 Preparing forests for the future. SMBE Ferrara, Italy. Poster Presentation.
- 12/2022 Recycling temporal genetic data for biodiversity monitoring. British Ecological Society. **Invited Oral presentation.** United Kingdom.
- 08/2022 Sympatry of genetically distinct puffins in the High Arctic. ConGen22. Edinburgh. Oral presentation. United Kingdom.
- 02/12/2022 Pacbio and Chestnut blight biocontrol. Biology22, Basel. Poster Presentation. Switzerland.

- 12/10/2021 AGA2021 President's Symposium. Oral presentation. **Invited Speaker.** USA. "Pacbio and Chestnut blight biocontrol." Deborah M Leigh; Daniel Rigling; Marin Jezic.
- 04/12/2021 GenDiv Conference. Zurich. Oral presentation. **Invited Speaker.** Switzerland. "Synthesising global genetic diversity trends." Deborah M Leigh.
- 08/10/2020 European Viral Bioinformatics Meeting. Poster. Switzerland. "Intra-host diversity of the mycovirus CHV-1 within natural *Cryphonectria parasitica* infections and a culture collection." Deborah M Leigh; Daniel Rigling.
- 11/09/2020 Host-Microbe Meeting. Oral presentation. Switzerland. "Characterising the population and intra-host diversity of a mycovirus: CHV-1." Deborah M Leigh; Daniel Rigling.
- 19/08/2018 Evolution. Montpellier. Oral presentation. France. **Hamilton Award Finalist.** "Detecting selection in bottlenecked populations." Deborah M Leigh.
- 11/12/2017 ArcticNet. Poster Canada. "Arctic seabird genomics." Vicki Frisen; Deborah M Leigh.
- 14/09/2017 Conservation of adaptive potential. Oral presentation. United Kingdom. "Detecting selection in bottlenecked populations." Deborah M Leigh; Lukas Keller.
- 20/08/2017 Integrated methods to detect polygenic adaptation from genomics data. Poster and **funded place.** Switzerland. "Detecting selection in bottlenecked populations." Deborah M Leigh; Lukas Keller.
- 05/2016 ConGenomics. Oral presentation. Funded place and **Best Talk Award.** Portugal. "Detecting selection in bottlenecked populations." Deborah M Leigh; Lukas Keller.
- 13/08/2015 ESEB. Poster presentation. Switzerland. "Post-bottleneck genetics in wild populations: Do we see what we expect and do patterns differ from neutrality?" Deborah M Leigh; Lukas Keller.
- 07/2014 URPP Project Symposium. Oral presentation. Switzerland. "Alpine ibex genomics." Deborah M Leigh; Andreas Wagner; Lukas Keller.

**Invited Seminar Talks** (limited to only those where I was presenter)

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- 23/05/2023 MeeGene seminar series. Bonn, Germany. "Genetic diversity in the Anthropocene." Invited seminar Speaker.
- 29/09/2022 Future PhDs for Future Forests. **Invited speaker/mentor.** Gottingen PhD retreat. "Using genomics to study trees across the landscape."
- 29/04/2021 WABIO seminar. WSL, Switzerland. "Pacbio and Chestnut blight biocontrol."
- 25/03/2021 Temporal Genomics Seminar. Rutgers University. USA. "Estimated six per cent loss of genetic variation in wild populations since the industrial revolution." Deborah M Leigh; Andrew Hendry; Ella Vazquez; Vicki Friesen (watch: [https://youtu.be/IXrH\\_OvfJoQ](https://youtu.be/IXrH_OvfJoQ))
- 08/12/2020 Hendry/Barret lab internal talk. Montreal/Toronto, Canada. "Temporal trends in diversity."
- 24/03/2020 CPH:DOX Science Film Factory, Copenhagen. "Temporal trends in diversity." Deborah M Leigh. \*cancelled due to covid-19
- 23/10/2020 Biodiversity seminar, WSL Switzerland. "Temporal trends in diversity."
- 17/01/2020 Mycovirus internal meeting, Agroscope. Switzerland. "Pacbio and Chestnut blight biocontrol." Deborah M Leigh; Daniel Rigling; Marin Jezic.

- 25/10/2018 NSERC strategic meeting. Queen's University. "Temporal Genomics."  
12/02/2018 Department of Ecology and Evolutionary Biology seminar. University of Toronto. "Detecting selection in bottlenecked populations."  
13/11/2017 Biology Department Seminar. Queen's University. "Detecting selection in bottlenecked populations."  
19/10/2017 NSERC. Queen's University. "Kittiwake genomics."  
06/09/2016 Genetic Diversity Centre conference. ETH Zurich. "Detecting selection in bottlenecked populations."

### Scientific outreach talks or events

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- 2023 Environment Climate Change Canada Seabird protection group.  
2023 Environment Climate Change Canada Genomic Adaptation and Resilience to Climate Change team.  
2022 *Biology22* Student talk judge  
2022 *IUCN Youth Policy* write-shop.  
2021 *Scientifica* (organized group attendance and WSL Intern article)  
2020 *CPH:DOX* Science Film Factory, Copenhagen. Invited keynote\*\* cancelled due to covid-19  
2020 *Skype a Scientist*  
2017- *Twitter (@debbiemleigh)*  
2018 *Seabird Twitter conference* – Presenter  
2018 *FLASF Kingston Science Fair* – Judge for children's science projects. Ages 10+  
2016 *For the Love of Sci*, Episode "Women in Science"–Podcast interviewee  
2012 *L'Oréal Soap Box for Science Day* – Support volunteer

### Scientific outreach publications

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- Minter M, Nielsen E, Blyth C, Bertola D, Kantar M, Moralex HE, Orland C, Segelbacher G, **Leigh DM** (2021) What is genetic diversity and why does it matter? *Frontiers for Young Minds* 9:656168. [10.3389/frym.2021.656168](https://doi.org/10.3389/frym.2021.656168) *Scientific article aimed at children and engaging children in the peer review process. Established the collaboration through GEOBON and supervised writing.*
- Birchard K, **Leigh DM** (2019) The importance of keeping time with our internal clocks. *Frontiers for Young Minds* 7:72. [10.3389/frym.2019.00072](https://doi.org/10.3389/frym.2019.00072) *Altmetric score 59. Last and corresponding author. Initiated the paper, supervised writing, and approached the journal. Scientific article aimed at children.*
- Colston-Nepali L, **Leigh DM** (2019) Ligers and tigons and grolars, oh my! Hybridization, and how it affects biodiversity. *Frontiers for Young Minds*. 7:113. [10.3389/frym.2019.00113](https://doi.org/10.3389/frym.2019.00113) *Last and corresponding author. Initiated the paper, supervised writing, and approached the journal. Scientific article aimed at children.*
- Leigh DM** (2018) Look- a Chamois. Dispatches from the field. April. *Blog post focused for ERCs on building confidence in the field.*

## **Interview in the Press**

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- 01/2024 [How DNA from the Dead is Helping Boost Species on the Brink.](#)  
Yale Environment360.
- 05/2023 EMBO Reports: genetic diversity change
- 09/2022 [Are We In the Midst of a Silent Mass Extinction? The Scientist.](#)

## **Teaching Experience**

### **Official supervision of junior researchers/students/visitors**

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#### *Postdoctoral fellows*

- 1) 08/2020-09/2020 Dr Lucija Nuskern. Visiting Postdoctoral Fellow. University of Zagreb, Croatia.

#### *PhD students*

- 2) 08/2021-09/2021 Karla Peranić. Visiting PhD Student. University of Zagreb, Croatia.

#### *MSc students*

- 3) 04/2023-06/2024 Nicole Simone McNamara. MSc thesis student. UZH, Switzerland.

#### *BSc students*

- 4) 08/2023-11/2023 Chiara Altendorfer. Visiting DAAD Rise Intern.
- 5) 08/2022-11/2022 Muhammad Murtaza Shah. Visiting DAAD Rise Intern.
- 6) 07/2022-09/2022 Clarincia Goweina. Visiting DAAD Rise Intern.
- 7) 06/2018-09/2018 Mary Kathleen-Hickox. NSERC summer student. Queen's University, Canada.
- 8) 09/2017-05/2018 Samantha McCall. BSc Thesis. Queen's University, Canada
- 9) 10/2015-12/2015 Co-supervisor (with Dr F Guillaume) two undergraduate students on a 'Block course.' University of Zurich. Switzerland

### **External supervision or collaborator-based support of junior researchers**

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#### *PhD students*

- 1) 08/2021-09/2024 Karla Peranić. University of Zagreb, Croatia.
- 2) 05/2019-05/2023 Oliver Kersten. University of Oslo, Norway.

#### *MSc students*

- 3) 01/2023-07-2023 Linus Hözel. Helmholtz Pioneer Campus, Germany.
- 4) 08/2017-09/2018 Russell Turner. MSc thesis student. Queen's University, Canada.

### **Teaching activities**

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- 2022/23/24 Lecturer: Genomics of Environmental Adaptation. ETH Zurich, Switzerland. (Graduate level).
- 2023 Guest Lecturer: Sustainable management of genetic resources. UZH, Switzerland. (Undergraduate level)
- 2018 Guest lecturer: Introduction to Adaptation. Queen's University, Canada. (Undergraduate level)
- 2017 Guest lecturer: Genetic rescue. Queen's University, Canada. (Graduate/Honours level)

- 2015&16 Co-designed module on RAD sequencing. University of Zurich, Switzerland. (PhD level)
- 2015 Field course teaching assistant. University of Zurich, Kalahari research station (Graduate Level)
- 2015 Introduction to population genetics. Teaching assistant for practical. University of Zurich, Switzerland.

## Overview of third-party funds

### Approved research projects (~880,000 CHF)

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#### *Large research projects*

- 1) GenDIB. (2025) **CHF 150,000** ORD ETH domain. Named collaborator. (PI: Felix Gugerli)
- 2) BAFU (2023) **CHF 231,872**. GenDiB - Eine neue nationale Datenbank zur innerartlichen genetischen Vielfalt in Populationen wildlebender Arten in der Schweiz. Project Partner. PI: Felix Gugerli)
- 3) SNSF Project (2022) **CHF 156,108**. Urban Birds. Role of birds in biosecurity of urban trees and forests. Project Partner. (PI: Eckehard G. Brockerhoff)
- 4) WSL Internal project (2021) **CHF 63,000** GenDiB. Feasibility study for a new national database on geo-referenced genetic diversity in populations of wild species. Co-PI. (PI: Felix Gugerli)
- 5) USGS Powell Center FY21 (2021) **\$298,000** Operationalizing conservation genetic data for biodiversity management. Named Partner and named USGS fellow\* *declined fellowship due to prior commitments*. (PI: Margret E Hunter)

#### *Smaller grants (<€5000)*

- 1) DAAD Rise (2023). **€3600**. Funding for a BSc student to study adaptation in white oaks. Project PI. (PI: Deborah M Leigh)
- 2) DAAD Rise (2022). **€3300**. Funding for a BSc student to study adaptation in white oaks. Project PI. (PI: Deborah M Leigh)
- 3) CanSeq 150 Genome Sequencing Initiative (2018) **CHF 4200** Sequencing our cultural heritage: Eider duck genome sequence. Co-PI/co-main applicant. (PI: Deborah M Leigh/Russel Turner)
- 4) Systematics Research Fund (2018) **CHF 1790** Cryptic speciation in Puffins. PI. (PI: Deborah M Leigh)
- 5) European Science Foundation. Short Visit Grant for knowledge exchange (2015). **CHF 995** To visit Uppsala University. PI. (PI: Deborah M Leigh)

### Additional funds secured to work with me:

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- 1) Mary Kathleen-Hickox NSERC Undergraduate Student Research Award **CHF 3200**

## Research output

Google Scholar h index of 12.

Total citations 1500+

### Manuscripts *In prep*

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**Leigh DM**, Akar P, Jansen S, Blyth C, McNamara S, Kaya Z, Neophytou C, Rellstab C (*In prep*) Multispecies adaptation to drought in white oaks across Central and Southern Europe.

*Lead author and coordinating scientist, establishment of common gardens, coordination of methods, collection of data, genomic and trait analyses, writing/editing.*

O'Brien D., T. Aavik, Fischer M. C, Goffaux R., Hoban S., Hollingsworth P., Hvilsom C., Jehle R., Kalamujić Stroil B., Kershaw F., Klinga P., Kopatz A., **Leigh D**, Pas-Vinas I., Robuchon M., Segelbacher G., Takacs V., Vernesi C., Laikre L., Incorporating genetic diversity will enhance the implementation of the European Nature Restoration Law. (*In prep*)

*Contributing author: writing and figures*

Geue J., IUCN SSC for Conservation genetics, **Leigh, D.** A framework to delineate ESUs for the IUCN (*In prep*)

*Co-leading author*

Prospero S, **Leigh DM**, Ćurković-Perica M, Jezic M, Rigling D (*In prep*) Host genotype frequency impacts the speed and success of Chestnut blight biocontrol.

*Contributing author: data analyses, writing/editing.*

### Manuscripts *Submitted*

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Schuman M. C., Rööslí C., Mastretta-Yanes A., Helfenstein I. S., Vernesi C., Selmoni O., Millette K., Tobón-Niedfeldt, Albergel C., **Leigh D.**, Hebden S., Schaepman M E, Laikre L., Asrar G. R. Genes from Space: Leveraging Earth Observation Satellites to Monitor Genetic Diversity. (*Submitted Global Change Biology*)

*Contributing author: writing and figures*

Schmidt C., Karachaliou E., Vandergast A. G., Crandall E.D., Falgout J., Hunter M.E., Kershaw F., **Leigh D.**, O'Brien D., Vinas I-P., Segelbacher G., Garrowat C. J. (*Submitted*) The global protected area network does not harbor genetically diverse populations. *Submitted to One Earth.*

*Contributing author: inception and writing.*

<https://ecoevorxiv.org/repository/view/6966/>

Paz-Vinas I, Vandergast AG, Schmidt C, Blanchet S, Clark RD, Crandall ED, De Kort H, Falgout J, Garroway CJ, Karachaliou E, Kershaw F, **Leigh DM**, O'Brien D, Pinsky ML, Segelbacher G, Hunter ME (*Submitted 03/2024*) Uneven genetic data limits

*Contributing author: inception, writing and editing.*

biodiversity assessments in protected areas globally. *Submitted*  
<https://ecoevorxiv.org/repository/view/6162/>

## Publications in international peer-reviewed scientific journals

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**Leigh DM**, Vandergast A, Hunter ME, Crandall E, Funk WC, Garroway CJ, Hoban S, Oylar SJ, Rellstab C, Segelbacher G, Schmidt C, Vazquez-Domínguez E, Paz-Vinas I (*In press*) Don't make your data disposable: Best practices for genetic and genomic data archiving and publishing. *Nature Ecology and Evolution*. <https://doi.org/10.32942/X29025>

*Lead, supervising the writing and collaboration.*  
*Corresponding author*

Schmid M.W., Moradi A., **Leigh D.M.**, Schuman M.C., van Moorsel S.J. Covering the bases: Population structure of *Lemna minor* and the cryptic species *L. japonica* in Switzerland (*Ecology and Evolution*) <https://doi.org/10.1002/ece3.11599>

*Contributing author: population genomic guidance*

Popović M, Nuskern L, Peranić K, Vuković R, Katanić Z, Krstin L., Čurković-Perica M, **Leigh DM**, Poljak I, Idžojić M, Rigling D, Ježić M (2023) Physiological variations in hypovirus-infected wild and model longterm laboratory strains of *Cryphonectria parasitica*. *Frontiers in Microbiology*. 14. doi: [10.3389/fmicb.2023.1192996](https://doi.org/10.3389/fmicb.2023.1192996)

*1 citation. Contributing author: data analyses, writing/editing. IF (impact factor)= 4.076*

**Leigh DM**†, Kersten O†, Star B, Anker-Nilssen T, Burnham K, Johnson J, Provencher J, Boessenkool S (2022) Sympatry of genetically distinct puffins in the High Arctic. *Ibis*. doi: [10.1111/ibi.13153](https://doi.org/10.1111/ibi.13153) †joint first

*3 citations. Nominated for best ERC paper. First author, wrote the manuscript, secured funding to sequence high Arctic specimens. Established collaboration. Corresponding author*  
*IF= 1.804*

Jensen E, **Leigh DM** (2022) Using temporal samples to understand contemporary climate change responses in wildlife. *Ecology and Evolution*. doi: [10.1002/ece3.9340](https://doi.org/10.1002/ece3.9340)

*13 citations. Last author. co-wrote manuscript.*  
*Corresponding author*  
*IF = 2.91*

**Leigh DM**†, van Rees CB†, Millette KL†, Breed MF, Schmidt C, Bertola LD, Hand BK, Hunter ME, Jensen EL, Kershaw F, Liggins L, Luikart G, Manel S, Mergeay J, Miller JM, Segelbacher G, Hoban S, Paz-Vinas I (2021) Opportunities and challenges of macrogenetic studies. *Nature Reviews Genetics*. 22:791-807  
doi: [10.1038/s41576-021-00394-0](https://doi.org/10.1038/s41576-021-00394-0) †joint first

*80 citations. Manuscript co-lead.*  
**IF = 53.242**

**Leigh DM**, Peranić K, Prospero S, Cornejo C, Čurković-Perica M, Kupper Q, Nuskern L, Rigling D, Jezic M (2021) Long read sequencing reveals the evolutionary drivers of intra-host diversity across natural RNA mycovirus infections.

*Virus Evolution*. 7(2) veab101

Doi: <https://doi.org/10.1093/ve/veab101>

5 citations. First author: sample collection/ analyses), wrote manuscript.

Corresponding author

IF = 7.989

Paz-Vinas I, Jensen EL, Bertola LD, Breed MF, Hand BK, Hunter ME, Kershaw F, **Leigh DM**, Luikart G, Mergeay J, Miller JM, van Rees CB, Segelbacher G, Hoban S (2021) Macrogenetic studies must not ignore limitations of genetic markers and scale.

*Ecology Letters* 24:1282-1284 doi: [10.1111/ele.13732](https://doi.org/10.1111/ele.13732)

30 citations. Contributing middle author: temporal genetic diversity aspect, outlined initial critique, co-wrote text.

IF=9.492

Kersten O, Star B, **Leigh DM**, Anker-Nilssen T, Strøm H, Danielsen J, Descamps S, Erikstad KE, Fitzsimmons MG, Fort J, Hansen ES, Harris MP, Irestedt M, Oddmund K, Mallory ML, Jakobsen KS, Boessenkool S (2021) Complex population structure of the Atlantic puffin revealed by whole genome analyses.

*Communications Biology* 4:922

doi: [10.1038/s42003-021-02415-4](https://doi.org/10.1038/s42003-021-02415-4)

20 citations. Contributing middle author: population genomics expert, writing/editing

IF=6.268

Kessler C, Brambilla A., Waldvogel D, Camenisch G, Biebach I, **Leigh DM**, Grossen C, Croll D, (2022) A robust sequencing assay of a thousand amplicons for the high-throughput population monitoring of Alpine ibex immunogenetics. *Molecular Ecology Resources*. 22:66-85

doi: [10.1111/1755-0998.13452](https://doi.org/10.1111/1755-0998.13452)

11 citations. Contributing middle author: provided data, writing/editing.

IF=7.090

**Leigh DM**, Lischer HEL, Guillaume F, Grossen C, Günther T. (2021) Disentangling adaptation from drift in bottlenecked and reintroduced populations of Alpine ibex.

*Molecular Ecology Resources*. 21:2350-2363

doi: [10.1111/1755-0998.13442](https://doi.org/10.1111/1755-0998.13442)

11 citations. First author: analysed data, developed simulations, established the collaboration, co-wrote.

Corresponding author

IF = 7.090

**Leigh DM**, Schefer C, Cornejo C (2020) Determining the Suitability of MinION's Direct RNA and DNA Amplicon Sequencing for Viral Subtype Identification.

*Viruses* 12:801

doi: [10.3390/v12080801](https://doi.org/10.3390/v12080801)

13 citations. First author, wrote paper, conducted bioinformatics.

Corresponding author

IF=5.048

**Leigh DM**, Hendry A, Vazquez-Domínguez E, Friesen V (2019) Estimated six percent loss of genetic variation in wild populations since the industrial revolution.

*Evolutionary Applications* 12:1505-1512

187 citations. **Wiley top accessed paper in 2019 and 2020.** Cover article. Cited in the IPBES 2019 Global Summary for Policy

doi: [10.1111/eva.12810](https://doi.org/10.1111/eva.12810)

*Makers. Evolutionary Applications top 20 Altmetric score in 2019.*  
First author, wrote the paper, performed literature review and statistical analyses.  
Corresponding author  
IF= 5.183

**Leigh DM**, Lischer HEL, Grossen C, Keller LF. (2018) Batch effects in a multi-year sequencing study: False biological trends due to changes in read lengths. *Molecular Ecology Resources* 18:778-788  
doi: [10.1111/1755-0998.12779](https://doi.org/10.1111/1755-0998.12779)

45 citations. First author, co-wrote the paper and conducted the analysis.  
Corresponding author  
IF=7.090

**Leigh DM**, and Smallegange I. (2014) Effects of variation in nutrition on male morph development in the bulb mite *Rhizoglyphus robini*. *Experimental and Applied Acarology* 64:159-170.  
doi: [10.1007/s10493-014-9822-y](https://doi.org/10.1007/s10493-014-9822-y)

14 citations. First author, wrote the paper, designed the experiment and conducted the analyses.  
IF=2.132

Mäenpää M, Andrews CP, Collette D, **Leigh DM**, Smiseth PT (2014) Burying Beetle Larvae Discriminate Between Individual Parents and Between Some Classes of Adults. *Ethology* 121:395-402.  
doi: [10.1111/eth.12348](https://doi.org/10.1111/eth.12348)

12 citations. Middle-author. Designed initial experiment, collected a subsample of the data and commented on text.  
IF=1.897

**Leigh DM**, and Smiseth P (2012) Parent–Offspring Conflict over the Transition to Independence in *Nicrophorus vespilloides*: Parental Chemical Cues and Offspring Begging. *Ethology* 118:460-465.  
doi: [10.1111/j.1439-0310.2012.02032.x](https://doi.org/10.1111/j.1439-0310.2012.02032.x)

12 citations. First author. Initiated and designed the experiment. Wrote the paper and conducted data analyses.  
IF=1.897

## Peer-reviewed books/monographs/reports

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Lead Authors: Brauman KA, Garibaldi LA, Polasky S, Zayas C, Aumeeruddy-Thomas Y, Brancalion P, DeClerck F, Mastrangelo M, Nkongolo N, Palang H, Shannon L, Shrestha UB, Verma M.

Contributing Authors: Adams C, Andersson GKS, Arkema K, Babai D, Brett B, Munari LC, Chaplin-Kramer R, Cooper D, De Meester L, Dee L, Faith D, Friesen V, Golden C, Guillemot J, Gurr G, Heinemann A, Hendry A, Horgan F, Jacob U, Karp D, Khan A, Krug C, Labeyrie V, Lauer M, **Leigh DM**, Meli P, Mirus B, Molnár Z, Mueller N, Muhaimed AS, Niamir A, O'Rourke M, Mendez NP, Purvis A, Price O, Romanelli C, Salpeteur M, Seufert

921 citations. Contributed to the sections on the status and importance of genetic diversity.

V, Samakov, Strombom E. (2019). Chapter 2.3. Status and Trends – Nature’s Contributions to People (NCP).

In: Global assessment report of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services. Brondízio ES, Settele J, Díaz S, Ngo HT.

(eds). IPBES secretariat, Bonn, Germany.

doi: [10.5281/zenodo.3832035](https://doi.org/10.5281/zenodo.3832035)

Biebach I, Leigh DM, Sluzek K, and Keller LF. (2016) Genetic Issues in Reintroduction. In: Reintroduction of Fish and Wildlife populations. (eds) Jachowski DS, Millsbaugh JJ, Angermeier PL, Slotow R. USA: UC Press.

*52 citations (book cited as a whole 38 times). Wrote sections on captive breeding and studying local adaptation. Commented on text throughout.*

### **Other artefacts with documented use**

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Data from: Estimated six percent loss of genetic variation in wild populations since the industrial revolution. [doi:doi.org/10.5061/dryad.8c4c359](https://doi.org/10.5061/dryad.8c4c359) Downloaded 69 times, 1 citation.

Genome assembly: Common Eider duck (*Somateria mollissima*). Ncbi: JASAOJ000000000; BioSample SAMN33