CV: Deborah M. Leigh, PhD

Personal Information

Email: deborah.leigh@wsl.ch ORCiD:0000-0003-3902-2568
Google scholar: eXQPLVkAAAAJ Personal Website: deborahmleigh.weebly.com
British Citizen English (Native speaker)/French/German(A2)

Research Interests

Conservation genetics, Biodiversity monitoring, Genomics, Adaptation, Macrogenetics

Education

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 (3.9 years/47.4 Effective months of full-time work since PhD as of 01/12/22)

03/2022-02/2023	*Assisted migration in white oaks: mapping drought adaptation*. Scientist, WSL, Switzerland. SNSF funded project: ACORN. Lead: Dr. Christian Rellstab
09/2021-02/2022	*Assisted migration in white oaks: mapping drought adaptation* Postdoctoral Fellowship, WSL, Switzerland. SNSF 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 strategic grant: 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

Skills

- Expert in conservation and population genomics.
- Expert in genomic data creation and bioinformatics (Illumina, PacBio, MinION, 10X), including creating bioinformatics pipelines and analyses in Unix, Python and R.
- Highly experienced working on international projects, and in establishing collaborations.
- Established field researcher, experience working in remote and difficult field conditions, DNA sample collection, behaviour observations in the field, and field project management.
- Strong track record for research outreach and dissemination to conservation organizations/general public.
- Experienced team leader (2-3 persons) and project coordinator.

Approved research projects

1) SNSF Project (2022) **TBD** (2 year postdoc funds) Urban Birds. Role of birds in biosecurity of urban trees and forests. Project Partner. (PI: Eckehard G. Brockerhoff)
2) 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: Dr Felix Gugerli)
3) 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: Dr Margret E Hunter)
4) DAAD Rise (2022). **€3300.** Funding for a BSc student to study adaptation in white oaks. Project PI. (PI: Deborah M Leigh)
5) 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)
6) Systematics Research Fund (2018) **CHF 1790** Cryptic speciation in Puffins. PI. (PI: Deborah M Leigh)
7) 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:

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

Official supervision of junior researchers/students

1)	08/2022-11/2022	Muhammad Murtaza Shah. DAAD Rise Intern. BSc Student.Supervisor.
2)	07/2022-09/2022	Clarincia Goweina. DAAD Rise Intern. BSc Student. Host/official supervisor.
3)	08/2021-09/2021	Karla Peranić. PhD Student. Visit support and bioinformatic supervisor.
4)	08/2020-09/2020	Dr Lucija Nuskern. Postdoctoral Fellow. Daily supervisor and bioinformatic trainer.
5)	08/2017-09/2018	Russell Turner. Daily MSc supervisor, genomic support, analysis/thesis feedback, co-grant led to sequence species' genome. Queen's University, Canada.
6)	06/2018-09/2018	Mary Kathleen-Hickox. NSERC summer student award. Project supervisor, daily support and lab training Queen's University, Canada.
7)	09/2017-05/2018	Samantha McCall. Honours thesis supervisor. Project Supervisor. Daily planning, lab training, project outline. Queen's University, Canada
8)	10/2015-12/2015	Co-supervisor (with Dr F Guillaume) two undergraduate students on a 'Block course.' Outlined project idea, daily support. University of Zurich. Switzerland.

Additional professional mentorship activities

2022	Mahsa Bazrafshan, PhD – Postdoc transition. WSL, Switzerland.
2017-2019	Katie Birchard, scientific and outreach. Queen's University, Canada.
2017-2019	Lily Colsten-Nepali, scientific and outreach. Queen's University, Canada.
2015-2017	General PhD representative, mentoring students through conflict. UZH, Switzerland.

Teaching activities

2022/23	Lecturer: Genomics of Environmental Adaptation. ETH Zurich, Switzerland. (Graduate level). Course redesign, lectured on genetic markers, evaluated students.
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 a lecture on an introduction to RAD sequencing and data analysis. University of Zurich, Switzerland. (PhD level)
2015	Field course teaching assistant. Three weeks hands-on support. University of Zurich, Kalahari research station (Graduate/Undergraduate Level)
2015	Introduction to population genetics. Teaching assistant for practical. University of Zurich, Switzerland.

Active memberships in scientific societies, fellowships in renowned academies

- USGS Powell Centre Macrogenetics Group (member since 2021)
- IUCN SSC Conservation Genetics Specialist Group (invited member since 11/21)
- GeoBON "Genetic composition working group" (invited member since 05/20)
- ESEB and BES (ordinary member)

Prizes and Awards

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. Finalist competitor for the award given to an outstanding ERC talk. Extremely high competition year due to joint ESEB/Evolution conference (2018)
5) Queen's Postdoc Travel Award (2018) €650
6) Society for the Study of Evolution. W. D. Hamilton Award finalist travel grant (2018) €430.
7) ConGenomics. Portugal. Best Talk Award (of 53 talks 2015)
8) Funded place to attend Polygenic Adaptation Summer School, Zurich (2017)
9) European Science Foundation. ConGenomics. Travel Grant (2016) €600
10) European Science Foundation Workshop Place (2015). For the ESF B@G winter school.
11) Imperial College London Bursary for top entering MSc students. €1130. ~30 competitors. (2011)
12) Ashworth Prize. For highest ranked Zoology Graduate at the University of Edinburgh. €230. Ranked 2 of 51 competitors. (2011)
13) William Turner Prize. Award for outstanding academic achievement/highest ranking third-year student. €230. ~200 competitors. (2010)

International Conference and Workshop Organisation

1) *ConGen22. European Conservation Genetics meeting.* (30/08/2022-2/09/2022) Scientific Committee
2) *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)
3) *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)
4) *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)

Scientific peer-reviewing activities

- Journal of Biogeography – Reviewer (2022
- Ecography – Reviewer (2022)
- Plant, Cell and Environment – Reviewer (2022)
- Molecular Ecology – Reviewer (2022)
- Molecular Ecology Resources – Reviewer (2017)
- The Auk – Reviewer (2017-2018)
- Biological Invasions – Reviewer (2020-2021)

Institutional responsibilities

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.

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

2023/02	GenDiv Conference. Zurich. Oral presentation. **Invited Speaker**. Switzerland.
2022/12	British Ecological Society. **Invited Oral presentation**. United Kingdom.
2022/08	ConGen22. Edinburgh. Oral presentation. United Kingdom.
2022/02/12	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)

29/09/2022	Future PhDs for Future Forests. **Invited speaker/mentor.** Gottingen PhD retreat.
29/04/2021	WABIO seminar. WSL, Switzerland. "Pacbio and Chestnut blight biocontrol." Deborah M Leigh; Daniel Rigling; Marin Jezic.
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)
08/12/2020	Hendry/Barret lab internal talk. Montreal/Toronto, Canada. "Temporal trends in diversity." Deborah M Leigh.
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." Deborah M Leigh.
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." Deborah M Leigh.
12/02/2018	Department of Ecology and Evolutionary Biology seminar. University of Toronto. "Detecting selection in bottlenecked populations." Deborah M Leigh; Lukas Keller.
13/11/2017	Biology Department Seminar. Queen's University. "Detecting selection in bottlenecked populations." Deborah M Leigh; Lukas Keller.
19/10/2017	NSERC strategic meeting. Queen's University. "Kittiwake genomics." Deborah M Leigh.
06/09/2016	Genetic Diversity Centre conference. ETH Zurich. "Detecting selection in bottlenecked populations." Deborah M Leigh; Lukas Keller.

Interview in the Press

09/2022 Are We In the Midst of a Silent Mass Extinction? The Scientist.

Scientific outreach talks or events

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

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	*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	*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	*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.*

Research output
(Google scholar h index of 9)

Manuscripts *In prep*

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. *Prepared for Molecular Ecology.*	*Contributing author, conducted data analyses, writing and editing.*
Popović M, Nuskern L, Peranić K, Vuković R, Katanić Z, Ćurković-Perica M, **Leigh DM**, Poljak I, Idžojtić M, Rigling D, Ježić M (*In prep*) Physiological alterations caused by Cryphonectria hypovirus 1 in wild and model long-term laboratory *Cryphonectria parasitica* strains	*Contributing author, supported data collection and edited writing.*

Publications in international peer-reviewed scientific journals

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 †joint first	*First author, wrote the manuscript, secured funding to sequence high Arctic specimens. Established collaboration. Co-corresponding author IF (impact factor) = 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	*1 citation. Last author, co-wrote manuscript. Mini-review on temporal genomics and conservation. Co-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 †joint first	*34 citations. Manuscript co-lead, particularly focusing on the field's future, baseline effects and macrogenomics.* ***IF = 53.242***
Leigh DM, Peranić K, Prospero S, Cornejo C, Ćurković-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	*2 citations. First author, collected samples, build bioinformatic pipeline, analyzed data wrote the manuscript. IF = 7.989 Corresponding author*
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	*17 citations. Contributing middle author, expert on temporal trends in genetic diversity, examined raw data, helped with initial critique content and 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

5 citations. Contributing middle author, population genomics expert, supported project planning, secured funding for sequencing of Arctic populations. 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

5 citations. Middle author, generated RADseq data and commented on manuscript text. 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

5 citations. First author, co-wrote the paper, performed all analyses, co-wrote simulations and established the collaboration. IF =7.090
Corresponding author

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

10 citations. First author, wrote paper, conducted bioinformatics. IF=5.048
Corresponding author

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
doi: 10.1111/eva.12810

111 citations. Wiley top access/downloaded paper. Cover article. Cited in the IPBES 2019 Global Summary for Policy Makers. Wiley top accessed paper in 2019 and 2020. Evolutionary Applications top 20 Altmetric score in 2019. First author, wrote the paper, performed literature review and statistical analyses. IF= 5.183
Corresponding author

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

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

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	*13 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	*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	*11 citations. First author. Initiated and designed the experiment. Wrote the paper and conducted data analyses. IF=1.897*

Peer-reviewed books/monographs

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, Heinimann 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, Muhaimeed AS, Niamir A, O´Rourke M, Mendez NP, Purvis A, Price O, Romanelli C, Salpeteur M, Seufert 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	*7 citations. Contributed to the sections on the status and importance of genetic diversity.*
Biebach I, **Leigh DM**, Sluzek K, and Keller LF. (2016) Genetic Issues in Reintroduction. In: Reintroduction of Fish and Wildlife populations. (eds) Jachowski DS, Millspaugh JJ, Angermeier PL, Slotow R. USA: UC Press.	*13 citations. Wrote sections on captive breeding and studying local adaptation. Commented on text throughout.*

Other artefacts with documented use

Data from: Estimated six percent loss of genetic variation in wild populations since the industrial revolution. doi:doi.org/10.5061/dryad.8c4c359 Downloaded 62 times, 1 citation.