

DR. SC. NAT. MADLEN STANGE
Junior Research Group Leader

Leibniz Institute for the Analysis
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RESEARCH INTERESTS

Population Genomics, Biodiversity Monitoring, Conservation Biology, Evolutionary Biology, Adaptation, Changing Environments

EDUCATION

- 01/2014–17/05/2017**
University of Zurich (CH)
Dr. sc. nat. in Evolutionary Biology; Dissertation: “Evolution in Northern Neotropical Catfishes – Integrating Genomics and Morphometrics”
Research on the morphological and molecular evolution after habitat transition in Neotropical sea catfishes, supervised by Prof. M. Sánchez-Villagra, Paleontological Institute and Museum, University of Zurich, and Prof. W. Salzburger, University of Basel
- 10/2010–06/2013**
University of Potsdam (DE)
M. Sc. in Molecular Biology, overall grade: 1.2, “with distinction”
Master thesis. “A male color dimorphism in an African cichlid fish” in collaboration with the University of Basel (supervisors: Prof. W. Salzburger, Prof. R. Tiedemann, grade: 1.0, “excellent”)
- 10/2006–09/2010**
University of Potsdam (DE)
B. Sc. in Life Sciences, focus in genome research
Bachelor thesis. “Genetic variability of selected Calvin cycle genes in *Arabidopsis thaliana*” (supervisors: Prof. R. Tiedemann, Prof. M. Lenhard, grade: 1.0, “excellent”)

EMPLOYMENT HISTORY (7.5 YEARS OF 80-100% WORK SINCE PHD AS OF 01.02.2025)

- 07/2021–06/2026**
LIB Museum
Koenig Bonn, DE
Leibniz Junior Research Group leader (full-time) working on population genomics, range distribution, species status, and on the effect of hybridization of native and introduced minnow fishes (*Phoxinus*) on genomic, morphological, and trophic level in the Sieg River.
Since 2025 co-advisor in *Leibniz-Lab "Pandemic Preparedness"* in WP1 “Basis for a global map of pathogen diversity based on genomic recording of collections and targeted identification of potential pathogen reservoirs.”
- 04/2020–06/2021**
University Hospital Basel (UHB), CH
Postdoctoral researcher and bioinformatician (80%) with Prof. Dr. MD A. Egli working on the evolution and transmission of SARS-CoV-2 in Basel-City. (20% unpaid work to finish previous projects)

- 10/2019–03/2020** **Postdoctoral researcher** (full-time) with Profs. Andrew Hendry and Rowan Barrett working on genetic basis of ionic adaptation of fishes.
McGill University, CA
- 04/2018–09/2019** Swiss National Science Foundation **Postdoctoral Fellow** (full-time) with Profs. Andrew Hendry and Rowan Barrett working on ionic adaptation of fishes.
McGill University, CA
- 02/2018–03/2018** **Postdoctoral researcher** (full-time) with Prof. W. Salzburger working on the genomics of freshwater adaptation in sea catfish.
University of Basel, CH
- 06/2017–01/2018** **Postdoctoral researcher** (full-time) with Prof. M. Sánchez-Villagra working on morphological patterns of domestication in chicken and horses.
University of Zürich, CH
- 07/2013–12/2013** **Research assistant** (full-time) with Prof. M. Sánchez-Villagra planning a research project on the habitat evolution in Neotropical sea catfishes.
University of Zürich, CH
- 04/2012–10/2012** **Internship** (full-time) on next-generation sequencing – library preparation and computational analyses of RAD-seq data at the Evolutionary Biology unit, Zoological Institute with Prof. W. Salzburger
University of Basel, CH
- 09/2007–03/2012** **Research assistant** (9-19h/w) with Prof. R. Tiedemann working on the genetic variability in photosynthesis genes in accessions of *Arabidopsis thaliana*, in the framework of BMBF-funded GoFORSYS
University of Potsdam, DE

CAREER BREAKS

27/06/2015 – 17/10/2015 Maternity leave

FUNDING RECORD (~1.5 Mio CHF TO DATE)

- 2021–2026 [Leibniz Junior Research Groups](#) (5 years), Leibniz Association (837,607 CHF Leibniz + 558,518 CHF LIB co-financing), project *PhoxHy*
- 2018–2019 Early Postdoc.Mobility Fellowship for Canada (18 months), Swiss National Science Foundation (86,709 CHF), salary
- 2018 STRI Short Term Fellowship (3 months), Smithsonian Tropical Research Institute (4,350 CHF), stipend, research, and travel allowance to conduct fieldwork in Panama for my SNSF project
- 2015–2016 Forschungskredit University of Zürich (12 months, 55,821 CHF), salary
2013 Exchange Visit Grant, European Science Foundation (3,700 CHF), for an international collaboration with Dr. Marta Barluenga, National Museum of Natural Sciences, Dept. Biodiversity and Evolutionary Biology, Madrid, Spain
- 2012 Scholarship for a master thesis abroad (PROMOS), German Academic Exchange Service (1,200 CHF), for an external thesis at the University of Basel, Switzerland with Prof. Walter Salzburger

AWARDS

- 2018 Two awards for whole genome sequencing and assembly of *Percina caprodes* and *Perca flavescens* genomes within the Canada 150 Sequencing Initiative (CanSeq150) executed by Canada's Genomics Enterprise (CGEn) (worth 4,400 CHF sequencing costs)
- 2017 Best Talk Award in the section Bioinformatics and Phylogenomics, conference Biology17, Bern, Switzerland

MENTORING

- 2022–2024 Vivian Fischbach, PhD student at University of Rostock, within the *KarriereWegeMentoring* program for female PhD students

SUPERVISION

Postdoc:

LIB Museum Koenig, 2025–on-going: Ekaterina Shelest (co-advisor)

PhD students:

LIB Museum Koenig, 2021–on-going: Temitope Opeyemi Oriowo, Nils Sternberg

MSc thesis students:

LIB Museum Koenig, 2024-2025: Erika Cevallos Dupuis, Alexander Keller

UZH, 2014–2015: Manuela Fuchs (co-supervised with Madeleine Geiger and Marcelo R. Sanchez-Villagra)

Bachelor thesis students:

LIB Museum Koenig, 2024: Sebastian Scheumann; 2023: Fredrik Holz; both from University of Cologne

Research interns:

LIB Museum Koenig 2023-2024: Annabell Macphee, visiting Master student for a 12-month mandatory internship from University of Glasgow

LIB Museum Koenig 2022-2023: Samantha Lyon, Manuela Estrada, Erika Cevallos Dupuis, Simon Sommerfeld, Christina Bakowski, Nadika Abeyaweera; individually arranged practical courses (approx. 3 months) with fieldwork focus in Organismic Biology, Evolutionary Biology and Palaeontology (OEP) Master studies from Bonn University, for 10 ECTS each

McGill, 2019: Janay Fox, McGill University for a BESS internship in Panama

Block course participants:

UZH, 2014-2017: Bengül Cetin, Patrick Rohner, Sandra Schneebeli, Michael A. Müller, Marina Stirnemann, Florian Randegger, Cheuk Ting Mo, and Nicola Djoric in BIO262 3-week practical (Evolutionary Morphology of Vertebrates – Issues and Methods)

OUTREACH ACTIVITIES

2024	Supervision of high school “Facharbeit” in Biology by Johann Schneider on population age structure of minnows on the Sieg river (Beethoven-Gymnasium Bonn, 11th grade, 3 months, graded with 15 points [highest grade])
2023	Supervision of high school student internships: Anna Schuster (Gymnasium Rodenkirchen, 9th grade, one-day), Johann Schneider (Beethoven-Gymnasium Bonn, 10th grade, 2 weeks). LIB Bonn
2023	Video created by the German Ocean Foundation during their Rhine expedition 2023 on the research vessel Aldebaran about eDNA, minute 2.00-2.30. Link
2023	Short clip about my research activities as a female researcher at the LIB in the series <i>LIB Spot on: Forscherinnen am LIB</i> . Link
2022–on-going	Exchange with local angling clubs and anglers in response to fish abundance monitoring activities within the <i>PhoxHy</i> project, most notably recognized after the once-in-a-hundred-years flood in 2021 in the Ahrtal, NRW/RLP; e.g.: <p style="text-align: center;">Kölner Stadt-Anzeiger, 22.07.2022: “Fische nach Flut im Kreis Euskirchen. Der Bachforelle geht es gut, dem Edelkrebs nicht”</p> <p style="text-align: center;">Rhein-Zeitung, 13.08.2022: „Zu wenig Schatten, zu viele Algen: Fische in der Ahr leiden“</p>
05/2019	Interactive talk, <i>Adaptation and Evolution</i> . Partners in Research Canada, Live Event. Link
12/2016	Talk, <i>Von Knochen und Genen mariner Welse</i> . Öffentliche Museumsvorträge HS16, Paläontologisches Museum der Universität Zürich
09/2014	Talk, <i>Welse in Südamerika - urtümliche Fische aus Venezuela</i> . Lange Nacht der Zürcher Museen, Paläontologisches Museum der Universität Zürich

TEACHING ACTIVITIES

2025	“Demystifying Science: How to create figures for presentations”, 2h, open to all Master and PhD students at LIB
2024	“Demystifying Science: Intro into literature search” 2h, for all students of Stange and Böhne group, LIB “Demystifying Science: Scientific writing – Papers as stories” 2h, for all students of Stange and Böhne group, LIB
2018	2-Day workshop on geometric morphometrics, McGill University
2014–2017	Teaching introductory and advanced geometric morphometrics to undergraduate and graduate students during BIO262, University of Zürich

SERVICES AND INSTITUTIONAL RESPONSIBILITIES

- LIB (2024–2025): Process and retreat organisation for the definition of a mission and vision for the organisational unit *Centre for Molecular Biodiversity Research*
- LIB (2023–): Organisation of the LIB online seminar series MEEGene “Museum seminar in Evolutionary and Environmental Genomics” (bi-weekly during terms) as well as seminar

host for Prof. Nina O. Therkildsen, Dr. Mirte Bosse, Prof. Deborah M. Leigh, Dr. Iliana Bista, Prof. Rowan Barrett, Dr. Jose Cerca, Dr. Martin Fischer, Dr. Mozes Blom

- LIB (2021–): Serving on hiring committees for scientific and administrative staff; and on an internal election committee to select the LIB Ombudsperson
- QCBS/CSBQ (Quebec Centre for Biodiversity Science/ Centre de la Science de la Biodiversité du Québec, McGill University, 12/2018 – 12/2019): global representative

REVIEWING ACTIVITIES

Journals: Journal of Fish Biology, Journal of Zoological Systematics and Evolutionary Research, PLOS ONE, Zootaxa, Interdisciplinary Sciences: Computational Life Sciences, Annals of the Brazilian Academy of Sciences, Revista Brasileira de Zootecnia, Annales Zoologici Fennici, Reviews in Fish Biology and Fisheries, Ecology and Evolution, Biological Invasions, PeerJ, Scientific Reports, American Naturalist, Nature Ecology and Evolution, Evolutionary Biology, Integrative Zoology, Evolution, The European Zoological Journal.

Grants: Sparkling Science 2.0 (2022) Bundesministerium Bildung, Wissenschaft und Forschung, Austria; Islandic Research Fund RANNÍS; co-reviewer for one joint DFG/NSF grant

SCIENTIFIC TALKS (LIMITED TO ONLY THOSE WHERE I WAS PRESENTER)

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|--------------------------------|--|
| 02/2025
Potsdam, DE | “Unravelling German minnow (<i>Phoxinus</i>) diversity: combining insights from historical stocking records, COI-barcodes, whole-genomes, and trophic analyses”. <i>Evolutionary Biology and Genetics colloquium</i> , University of Potsdam. Invited talk. |
| 01/2025
Cologne, DE | “Unravelling German minnow (<i>Phoxinus</i>) diversity: combining insights from historical stocking records, COI-barcodes, whole-genomes, trophic analyses”. <i>Ecological colloquium</i> , Cologne University. Invited talk. |
| 11/2024
Berlin, DE | “Unravelling genetic diversity of minnows (<i>Phoxinus</i>) in Germany: insights from historical records and whole-genomes with implications for conservation and taxonomy”. 20. <i>Annual Meeting of German Ichthyological Society e.V. (GfI)</i> . |
| 08/2024
Montréal, CA | “Unravelling genetic diversity of minnows (<i>Phoxinus</i>) in Germany: insights from historical records and whole-genome analyses with implications for conservation and taxonomy”. <i>Third Joint Congress on Evolutionary Biology</i> . |
| 06/2023
Ascona, CH | “Stocking of <i>Phoxinus</i> spp. In North-Rhine Westphalia, Germany”. <i>Biodiversity Convention – from science to implementation</i> . |
| 11/2022
Vienna, AT | “ <i>Phoxinus</i> spp. In North-Rhine Westphalia: what we know and don’t know”. 18. <i>Annual Meeting of German Ichthyological Society e.V. (GfI)</i> . |
| 02/2021
virtual | “Determinants of SARS-CoV-2 transmission to guide vaccination strategy in a city”. 3 rd <i>ESGMD (ESCMID Study Group for Genomic and Molecular Diagnostics) webinar</i> . Invited talk. |
| 10/2020
virtual | “SARS-CoV-2 outbreak in a tri-national urban area is dominated by a B.1 lineage variant linked to mass gathering events”. 2 nd <i>ESGMD webinar</i> . Invited talk. |

- 10/2020**
University
Hospital Basel,
CH „SARS-CoV-2 Ausbruch in unserer tri-nationalen Metropolregion dominiert von einer einzigen viralen Variante im Zusammenhang mit Massenveranstaltungen“. *Mikrobiologisches Seminar*. **Invited talk.**
- 09/2020**
University of
Basel, CH “Phylogenetic analysis of the first pandemic wave of SARS-CoV-2 in Basel”. *Department of Biomedicine Summer Symposium*
- 09/2020**
Virtual “Phylogenetic analysis of the early phase of the pandemic of SARS-CoV-2 in Basel, Switzerland”. *ESCMID Conference on Coronavirus Disease Genomic epidemiology informs pandemic control.*
- 01/2020**
Bonn, DE “Genetic and morphological diversity in vertebrates”. *Zoological Research Museum Alexander Koenig*. **Invited talk.**
- 12/2019**
Montréal, CA “Life history and feeding ecology in an understudied sea catfish species from Panama/ Traits d'histoire de vie et l'écologie de alimentation d'une espèce de poisson-chat de mer peu étudiée du Panama”. *10th Symposium of the Quebec Centre for Biodiversity Science/ 10e colloque annuel du CSBQ.*
- 09/2019**
Montréal, CA “Phylogenetic Bayesian inference and geometric morphometrics in Neotropical Sea Catfishes: New species, support for Miocene closure of the Panamanian Isthmus, and Conservation of Skull shape”. *BESS Annual Retreat*
- 06/2018**
Panama-City,
PA “Phylogenetic Bayesian Inference and Geometric Morphometrics in Neotropical Sea Catfishes: New Species, Support for Miocene Closure of the Panamanian Isthmus and Conservation of Skull Shape”. Naos seminar series, Smithsonian Tropical Research Institute. **Invited talk.**
- 08/2017**
Gothenburg, SE “Phylogenetic Bayesian inference and geometric morphometrics in Neotropical sea catfishes: new species, support for Miocene closure of the Panamanian isthmus, and conservation of skull shape”. *Conference BioSyst.EU*
- 02/2017**
Bern, CH “Bayesian divergence time estimation and skull shape evolution in sea catfishes (Ariidae)”. *Conference Biology17* (Best Talk Award in the section Bioinformatics and Phylogenomics)
- 06/2016**
Austin, TX, USA “Morphological evolution in Neotropical Ariidae”. *Conference Evolution 2016*
- 10/2014**
Panama-City,
PA “Evolution in Northern Neotropical Catfishes – A Molecular and Morphological Approach”. *CTPA seminar series, Smithsonian Tropical Research Institute*. **Invited talk.**

PERSONAL COMPETENCIES

General management project management, procurement, budgeting, permit applications (Nagoya, collection permits); organisation for and execution of three fieldtrips to Panama to work at STRI (2 weeks to 3 months) for collection of bone and tissue material (2014, 2018, 2019) and one to Venezuela (2014), five fieldwork season à 6 weeks since 2022 in Germany for specimen and ecological parameter collection in the *PhoxHy* project

Languages	German (native), English (fluent, UniCert III/2, working language), French (7 years in school, lived in Québec for 2 years), Spanish (basic, A1.1)
Miscellaneous	certificate “ Developing Leadership ” 75 hours of training by Leibniz-Leadership Academy (2023); Electro-fishing license for Germany, fishing license Germany, EU driver’s license cat. B

ACADEMIC MEMBERSHIPS

since 2025	German Ichthyological Society (GFI)
since 2022	European Society for Evolutionary Biology (ESEB)
since 2022	Invited member of AcademiaNet , the European platform of outstanding women researchers
10/2018 – 03/2020	Postdoctoral fellow with the NSERC – CREATE in Biodiversity, Ecosystem Services, and Sustainability – BESS program at the Redpath Museum, McGill University and STRI fellow
04/2018 – 03/2020	Postdoctoral fellow with the QCBS, McGill University
05/2018 – 07/2018	Smithsonian Tropical Research Institute (STRI) fellow
11/2010 – 03/2013	Core Group member of the <i>Evolution Across Scales</i> Initiative funded by the Volkswagen foundation, University of Potsdam (DE)

ACTIVE COLLABORATIONS (SELECTION)

Carsten Schubert, EAWAG, support in stable isotope analyses of different minnow species; *PhoxHy project*

Gaël P. J. Denys, Muséum national d'Histoire naturelle, Paris; supporting museum specimen acquisition and fieldwork in France, taxonomic expertise; *PhoxHy project*

Anja Palandačić, Natural History Museum, Vienna; supporting museum specimen acquisition, exchanging specimens, taxonomic expertise; *PhoxHy project*

Astrid Böhne, LIB Bonn, supporting identification of sex determining genomic regions in *Phoxinus* spp., *PhoxHy project*

Christoph Mayer, LIB Bonn, supporting with AI-assisted landmarking on photos from fishes for geometric morphometrics, *PhoxHy project*

Jobst Pfaender, Naturhistorisches Museum Potsdam, joint grant proposal on minnow differentiation and distribution ranges in Germany and beyond

Erwan Delrieu-Trottin, CNRS CEFE, joint grant proposal on conservation genomics and ecology of sculpins

Michael Matschiner, LMU München, joint grant proposal on conservation genomics and ecology of sculpins

Bonn, 22. February 2025

PUBLICATIONS IN PEER-REVIEWED SCIENTIFIC JOURNALS

First or co-first author publications: 8; Last author publications: 4; Publications as co-author: 9
 Citations (from publisher's websites, excl. preprints): 515; h-index: 12; i10-index: 14; m-index: 0.92
 Check Google scholar: [qLKKIMsAAAAJ&hl](https://scholar.google.com/citations?user=qLKKIMsAAAAJ&hl) for citations and metrics incl. preprints

#chosen as significant publications

- Oriowo TO, Chrysostomakis I, Martin S, Kukowka S, Brown T, Winkler S, Myers EW, Böhne A, **Stange M** (2025). A chromosome-level, haplotype-resolved genome assembly and annotation for the Eurasian minnow (*Leuciscidae*: *Phoxinus phoxinus*) provide evidence of haplotype diversity, *GigaScience*, Volume 14, 2025, giae116, <https://doi.org/10.1093/gigascience/giae116>
 2 citations
 Lead, co-writing, supervising the collaboration. Last and corresponding author
 IF= 11.8
- Macphee A, Oriowo TO, Sternberg N, **Stange M** (2025). Comparison of whole genome sequencing performance from fish swabs and fin clips. *BMC Res Notes* 18, 15 (2025). <https://doi.org/10.1186/s13104-024-07075-1>
 Lead, supervising the writing and collaboration. Last and corresponding author
 IF= 1.6
- Zürcher K, Abela IA, **Stange M**, Dupont C, Mugglin C, Egli A, Trkola A, Egger M, Fenner L (2023). Alpha Variant Coronavirus Outbreak in a Nursing Home Despite High Vaccination Coverage: Molecular, Epidemiological, and Immunological Studies. *Clinical Infectious Diseases*. 15;77(4):537–46. <https://doi.org/10.1093/cid/ciab1005>
 8 citations
 Contributing author: phylogenomic analysis and interpretation
 IF 8.2
- Nadeau SA, Vaughan TG, Beckmann C, Topolsky I, Chen C, Hodcroft E, ...**Stange M**. et al. (2022) Swiss public health measures associated with reduced SARS-CoV-2 transmission using genome data. *Science Translational Medicine*. 15(680):eabn7979. <https://doi.org/10.1126/scitranslmed.abn7979>
 16 citations
 Contributing author: data curation, reviewing manuscript
 IF 15.8
- Bishop CE, Gahm K, Hendry AP., Jones SE., **Stange M**, Solomon CT. (2022). Benthic–Limnetic Morphological Variation in Fishes: Dissolved Organic Carbon Concentration Produces Unexpected Patterns. *Ecosphere* 13(3): e3965. <https://doi.org/10.1002/ecs2.3965>
 2 citations
 Contributing author: advised first author on GM analyses, wrote GM analysis R scripts; reviewing manuscript
 IF= 2.7
- Wegner F, Roloff T, Huber M, Cordey S, Ramette A, Gerth Y, Bertelli C, **Stange M**, et al. (2022) External Quality Assessment of SARS-CoV-2 Sequencing: an ESGMD-SSM Pilot Trial across 15 European Laboratories, *Journal of Clinical Microbiology* 60 (1): e01698-21, <https://doi.org/10.1128/JCM.01698-21>
 14 citations
 Contributing author: data curation, review manuscript
 IF 6.1
- Brüningk S C*, Klatt J*, **Stange M***, Mari A, Brunner M, Roloff T, Seth-Smith HMB, Schweitzer M, et al. (2022) Determinants of SARS-CoV-2 transmission to guide vaccination strategy in an urban area, *Virus Evolution* 8(1), veac002, <https://doi.org/10.1093/ve/veac002>
 10 citations
 *Shared first authorship. Co-Lead, performed phylogenomic analyses; data curation; co-writing manuscript
 IF 5.5
- Fox J, Jiménez AM, **Stange M** (2021) Natural history study of an understudied sea catfish species from Panama (*Siluriformes*: Ariidae). *Neotrop. ichthyol.* 19 (4) <https://doi.org/10.1590/1982-0224-2020-0105>
 shared corresponding author. Last author.
 Lead, co-writing manuscript
 IF 2.0

- C. Chen, S.A. Nadeau, I. Topolsky, M. Manceau, J.S. Huisman, K.P. Jablonski, L. Fuhrmann, D. Dreifuss, K. Jahn, C. Beckmann, M. Redondo, C. Noppen, L. Risch, M. Risch, N. Wohlwend, S. Kas, T. Bodmer, T. Roloff, **M. Stange**, et al. (2021) Quantification of the spread of SARS-CoV-2 variant B.1.1.7 in Switzerland. *Epidemics*, 37 (2021): 100480, <https://doi.org/10.1016/j.epidem.2021.100480>
23 citations
Contributing author: data curation, reviewed manuscript
IF 3.0
- Mari A, Roloff T, **Stange M**, Søggaard KK, Asllanaj E, Tauriello G, et al. (2021) Global Genomic Analysis of SARS-CoV-2 RNA Dependent RNA Polymerase Evolution and Antiviral Drug Resistance. *Microorganisms* 9(5):1094. <https://doi.org/10.3390/microorganisms9051094>
27 citations
Contributing author: performed gene selection analyses, co-writing manuscript
IF 4.1
- Goncalves Cabecinhas AR*, Roloff T*, **Stange M***, Bertelli C, Huber M, et al. (2021) SARS-CoV-2 N501Y Introductions and Transmissions in Switzerland from Beginning of October 2020 to February 2021—Implementation of Swiss-Wide Diagnostic Screening and Whole Genome Sequencing. *Microorganisms* 9(4):677. <https://doi.org/10.3390/microorganisms9040677>
36 citations
*Shared first authorship
data curation and analysis, co-writing manuscript
IF 4.1
- Stange M***, Mari A*, Roloff T*, Seth-Smith HM*, Schweitzer M, et al. (2021) SARS-CoV-2 outbreak in a tri-national urban area is dominated by a B.1 lineage variant linked to a mass gathering event SARS-CoV-2 outbreak in a tri-national urban area is dominated by a B.1 lineage variant linked to a mass gathering event. *PLOS Pathogens* 17(3): e1009374. <https://doi.org/10.1371/journal.ppat.1009374>
42 citations
*Shared first authorship
Lead on phylogenetic analysis, interpreted and wrote and revised the manuscript
IF 5.5
- #**Stange M**, Barrett RD, Hendry AP (2020) The importance of genomic variation for biodiversity, ecosystems and people. *Nature Reviews Genetics*. <https://doi.org/10.1038/s41576-020-00288-7>
84 citations
First author, wrote manuscript
IF 39.1
- Heck L, Sanchez-Villagra MR, **Stange M** (2019). Why the long face? Comparative shape analysis of miniature, pony, and other horse skulls reveals changes in ontogenetic growth. *PeerJ* 7:e7678. <https://doi.org/10.7717/peerj.7678>
21 citations
corresponding and last author.
Devised project, analysed data, wrote manuscript.
IF 2.3
- #**Stange M**, Sánchez-Villagra MR, Núñez D, Jensen P, Wilson LAB. (2018) Morphological variation under domestication: how variable are chickens? *Royal Society Open Science*. 5: 180993. <http://dx.doi.org/10.1098/rsos.180993>
25 citations
shared corresponding author, first author; took and analysed data, lead writing of the manuscript
IF 2.9
- Heck L, Wilson LAB, Evin A, **Stange M**, Sánchez-Villagra MR. (2018) Shape variation and modularity of skull and teeth in domesticated horses and wild equids. *Frontiers in Zoology*. 15:14. <https://doi.org/10.1186/s12983-018-0258-9>
40 citations
contributing author: support of GM analyses
IF 2.6
- Stange M**, Aguirre-Fernández G, Salzburger W, Sánchez-Villagra MR. (2018a) Study of morphological variation of northern Neotropical Ariidae reveals conservatism despite macrohabitat transitions. *BMC Evolutionary Biology*. 18:38. <https://doi.org/10.1186/s12862-018-1152-y>
7 citations
corresponding and first author.
Designed study, took and analysed data, wrote manuscript
IF 3.4

- Stange M**, Sánchez-Villagra MR, Salzburger W, Matschiner M. (2018b) Bayesian Divergence-Time Estimation with Genome-Wide SNP Data of Sea Catfishes (Ariidae) Supports Miocene Closure of the Panamanian Isthmus. *Systematic Biology*, syy006. <https://doi.org/10.1093/sysbio/syy006> 158 citations
first author, devised the project, generated catfish sequence data, analysed and interpreted the catfish data and wrote the catfish part of manuscript (excluding the simulations)
 IF 6.1
- Stange M**, Aguirre-Fernández G, Cooke RG, Barros T, Salzburger W, Sánchez-Villagra MR (2016) Evolution of opercle bone shape along a macrohabitat gradient: species identification using mtDNA and geometric morphometric analyses in Neotropical sea catfishes (Ariidae). *Ecology and Evolution*, 6(16):5817-5830. <http://dx.doi.org/10.1002/ece3.2334> 8 citations
shared corresponding author, first author. Collected, analysed, and interpreted data. Wrote manuscript.
 IF 2.3
- Fuchs M, Geiger M, **Stange M**, Sánchez-Villagra MR (2015) Growth trajectories in the cave bear and its extant relatives: an examination of ontogenetic patterns in phylogeny. *BMC Evolutionary Biology*, 15:239. <https://doi.org/10.1186/s12862-015-0521-z> 12 citations
contributing author: supported GM analyses, revised manuscript
 IF 2.3
- #Mateus CS*, **Stange M***, Berner D, Rösti M, Quintella BR, Alves MJ, Almeida PR, Salzburger W (2013) Rad-seq reveals strong genetic divergence between sympatric European river and brook lampreys, *Current Biology* 23(15):R649-R650. (* shared first authorship) <http://dx.doi.org/10.1016/j.cub.2013.06.026> 45 citations
**Shared first author: generated, analysed, and interpreted RAD-seq data. Co-wrote manuscript*
 IF 8.1

UNPUBLISHED WORK

Sternberg N, Bodenheim A, **Oriowo TO**, Podsiadlowski L, **Stange M**. Human impacts on the distribution and genetic diversity of Eurasian minnows (*Phoxinus*: Leuciscidae) in the Rhenish Massif. **(student-led paper, in revision)**

Stange M (2013) A male color dimorphism in an African cichlid fish. Master thesis.

Stange M (2010) Genetic variability of selected Calvin cycle genes in *Arabidopsis thaliana*. Bachelor thesis