

Curriculum Vitae - DR. JULIA GEUE

1 Personal Data

ADDRESS:	Wildlife Ecology and Management, University of Freiburg, Germany	LANGUAGES:	German (native), English (fluent), Swedish (A2), Italian (A1)
EMAIL:	jgeue.uni@gmail.com	PHONE:	+49 15206341835
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NATIONALITY:	German		

2 Research Profile

Conservation geneticist with a strong track record of translating complex genomic data into actionable biodiversity policy. Experienced in leading multidisciplinary research activities, coordinating international collaborations, and integrating population and landscape genomics with advanced bioinformatics to develop scalable biodiversity monitoring tools. Through strategic collaborations with international agencies and the IUCN, my work has helped to integrate genetic diversity into global biodiversity frameworks.

3 Work Experience

SINCE 06/24	<i>Postdoctoral Researcher</i> at the Wildlife Ecology and Management Department, Freiburg University , Germany in the GINAMO (Genetic Indicators for NA tural MO nitoring) project Mentor: Prof. Prof. Dr. Gernot SEGELBACHER
02/23 - 04/24	<i>Postdoctoral Researcher</i> at the Biology Department, Trent University , Canada Mentor: Dr. Micheline MANSEAU and Dr. Paul WILSON
04/21 - 01/23	<i>Postdoctoral Fellow</i> at the Department of Ecology and Environmental Sciences, Umeå University , Sweden Mentor: Prof. Dr. Xiao-Ru WANG
10/16 - 12/20	<i>PhD</i> at the Institute of Evolution and Ecology, University of Tübingen , Germany Supervisor: Dr. Henri THOMASSEN
09/18-10/20	<i>Research Assistant</i> at the Center for animal genetics (CAG GmbH) , Tübingen, Germany
05 - 09/16	<i>Research Assistant</i> at the Center for animal genetics (CAG GmbH) , Tübingen, Germany
09/15 - 09/16	<i>Research Assistant</i> at the Institute of Evolution and Ecology, University of Tübingen , Germany
09/15 - 04/16	<i>Research Assistant</i> at the Center for neurodegenerative diseases (DZNE) , Germany

4 Selected Achievements

- Led a research work package within the international GINAMO project, coordinating partners, activities, time-lines, deliverables, and reporting.
- Secured €14,000 in competitive funding and led an international workshop that established the ReGenMon Network.
- Co-led an international initiative within the IUCN SSC Conservation Genetics Specialist Group (CGSG) and direct its global communication strategy.
- Co-developed a practical biodiversity-conservation framework (BioScience, 2026), bridging research, conservation, and policy through the IUCN CGSG.
- Translated genomic and ecological research into conservation frameworks, biodiversity-monitoring approaches, and policy recommendations, including CBD genetic indicators.

5 Professional Expertise & Technical Skills

Scientific Project Management & Leadership

- **Project & Work Package Leadership:** Lead a research work package within a large collaborative project, coordinating scientific activities, partners, timelines, and deliverables.
- **Scientific Coordination:** Expert in coordinating multidisciplinary research activities from study design and implementation through to analysis, reporting, and dissemination.
- **Scientific Networking:** Experienced in building and maintaining international research networks and developing collaborations across institutions and disciplines.
- **Scientific Writing & Reporting:** Expert in scientific writing, project reporting, manuscript preparation, synthesis of complex scientific information, and development of project deliverables.
- **Workshop & Event Organisation:** Experienced in organising and facilitating scientific workshops, meetings, and collaborative events.

Genomics, Bioinformatics & Molecular Biology

- **Genomics & Bioinformatics:** Expert in processing, analysing, and interpreting large-scale genomic datasets, including WGS and GBS, and in developing reproducible computational workflows and pipelines for high-throughput genomic data analysis.
- **Molecular Biology:** Highly experienced in DNA extraction and NGS library preparation, including field-to-laboratory workflows.
- **Field Research:** Experienced in field sample collection, research logistics, and project implementation under remote and challenging environmental conditions.

Computational & Quantitative Analysis

- **Programming & Bioinformatics:** Expert in R and bash for high-throughput genomic data analysis and development of reproducible computational pipelines; WGS and GBS.
- **Spatial & Environmental Modelling:** Experienced in analysing spatial, environmental, ecological, and genetic patterns using statistical and modelling approaches, including landscape genomics, species distribution modelling, and biodiversity prediction (e.g., GDM, LFMM, and Random Forest).

Conservation Planning & Decision Support

- **Conservation Prioritisation:** Experienced in applying Zonation and other spatial prioritisation approaches to identify priority areas for biodiversity conservation.
- **Science for Conservation:** Experienced in translating genomic, ecological, and spatial analyses into conservation-relevant outputs and recommendations.

6 Education

2026	<i>Leadership training</i> , "EmpowerHer - Leadership & Visibility for Female Academic Leaders", University of Freiburg
2024	<i>Facilitating Species Conservation Planning Workshop</i> , Virtual by the IUCN Conservation Planning Specialist Group
2023	<i>Science Communication Workshop</i> , Virtual by COMPASS
2022	Summer school " <i>Software and Statistical Methods Population Genomics</i> " in Aussois, France
12/2020	PhD in BIOLOGY, Institute of Evolution and Ecology, University of Tübingen , Germany. Title: "Mapping the biodiversity of today to protect it for the future – The influence of the environment on biodiversity, and its use in conservation."
2017	Advanced Course " <i>Spatial conservation prioritization</i> ", in Vairao, Portugal
2017	Advanced Course " <i>Landscape Genomics</i> ", in Berlin, Germany
05/2015	Master of Science in BIOLOGY, Institute of Evolution and Ecology, University of Tübingen , Germany. Title: "Landscape genetics of the House sparrow (<i>Passer domesticus</i>) for conservation prioritization in Eastern Europe."
10/2012	Bachelor of Science in AGRICULTURAL BIOLOGY, University of Hohenheim , Germany.

7 Publications

Publication record: 8 peer-reviewed publications, 115 citations, h-index: 4.

Note: Corresponding-author publications are marked with *. Senior-author publications are marked with †.

Pre-prints and manuscripts in preparation

C. Mouton, B. Leenders, S. Hoban, J. Mergeay, G. Segelbacher, **J.C. Geue***†: "From Population Data to Genetic Indicators: A Continental Assessment of European Birds." *under Review in **Evolutionary Applications***

M.J. Shuvo, G. Segelbacher, **J.C. Geue†**: "PoLoCo: A reproducible pooled low-coverage workflow for draft genome assembly and allele frequency analysis from ethanol-preserved small non-model invertebrates." *under Review in **GigaByte***

P. Liu, P. Wilson, **J.C. Geue**, ..., M. Manseau: "SmarTyper: a reference-free and unified platform for microhaplotype and micropeptide genotyping." *under Review in **Molecular Biology and Evolution***

C. van Oosterhout, J.A. DeWoody, J.A. Godoy, **J.C. Geue**, D.M. Leigh, P. Sunnucks: "Genetic load in Evolutionarily Significant Units (ESUs): conservation and management implications." *EcoEvoRxiv*

Peer-reviewed publications

2026 J.C. Geue*, L.D. Bertola, P. Bloomer, A. Brüniche-Olsen, J.M. da Silva, ..., D.M. Leigh: "Practical genetic diversity protection: an accessible framework for IUCN subpopulation and Evolutionarily Significant Unit identification." *BioScience*. DOI: [10.1093/biosci/biag042](https://doi.org/10.1093/biosci/biag042)

2025 J.C. Geue*, P. Liu, S. Keobouasone, P. Wilson, M. Manseau: "MhGeneS: An analytical pipeline to allow for robust microhaplotype genotyping." *Molecular Ecology Resources*. DOI: [10.1111/1755-0998.14027](https://doi.org/10.1111/1755-0998.14027)

2024 S. Hoban, I. Paz-Vinas, R.E. Shaw, L. Castillo-Reina, J.M. da Silva, J.A. DeWoody, R. Eklblom, A. Fedorca, B.R. Forester, W.C. Funk, **J.C. Geue**, ..., C.E. Grueber: "DNA-based studies and genetic indicator assessments are complementary approaches to conserving evolutionary potential." *Conservation Genetics*. DOI: [10.1007/s10592-024-01632-8](https://doi.org/10.1007/s10592-024-01632-8)

2022 H. Hinneberg, T. Bamann, **J.C. Geue**, ..., H.A. Thomassen: "Truly invasive or simply non-native? Insights from an artificial crested newt hybrid zone." *Conservation Science and Practice*. DOI: [10.1111/csp2.12752](https://doi.org/10.1111/csp2.12752)

2022 J.C. Geue*, P.J. Rotter, C. Gross, Z. Benkő, I. Kovács, ..., H.A. Thomassen: "Limited reciprocal surrogacy of bird and habitat diversity and inconsistencies in their representation in Romanian protected areas." *PLOS ONE*. DOI: [10.1371/journal.pone.0251950](https://doi.org/10.1371/journal.pone.0251950)

2022 M. Glück, **J.C. Geue**, H.A. Thomassen: "Environmental differences explain subtle yet detectable genetic structure in a widespread pollinator." *BMC Ecology and Evolution*. DOI: [10.1186/s12862-022-01963-5](https://doi.org/10.1186/s12862-022-01963-5)

2020 J.C. Geue*, H.A. Thomassen: "Unravelling the habitat preferences of two closely related bumble bee species in Eastern Europe." *Ecology and Evolution*. DOI: [10.1002/ece3.6232](https://doi.org/10.1002/ece3.6232)

2016 J.C. Geue, C.I. Vágási, M. Schweizer, P.L. Pap, H.A. Thomassen: "Environmental selection is a main driver of divergence in house sparrows (*Passer domesticus*) in Romania and Bulgaria." *Ecology and Evolution*. DOI: [10.1002/ece3.2509](https://doi.org/10.1002/ece3.2509)

8 Research Funding

Competitive funding

Total: €51,800

2025	Freiburg Institute for Advanced Studies, grant to organize an international workshop within the FRIAS Conferences for Freiburg Early Career Researchers call	€ 14,000
2019	Beatrice-Nolte Stiftung, financial support for lab work (part of PhD thesis)	€ 1,500
2019	LBBW-Stiftung, financial support for lab work (part of PhD thesis)	€ 1,500
2016	Landesgraduierföderung Baden-Württemberg, 2-year PhD salary stipend	€ 34,800

Travel awards

Total: €3,300

2021	Kempe Foundation, travel grant to present at the EVOLTREE Conference in Birmensdorf, Switzerland	€ 1,200
2019	Teufel-Stiftung, travel grant to present at the ICCB 2019 in Kuala Lumpur, Malaysia	€ 1,300
2017	Teufel-Stiftung, travel grant to attend workshops in Portugal and Germany	€ 800

9 Scientific Leadership and Professional Services

Scientific Leadership

SINCE 2026	Co-lead of the <i>Genetic Monitoring for Nature Restoration; ReGenMon network</i>
SINCE 2025	Communication officer of the <i>SSC IUCN 'Conservation Genetics Specialist Group' (CGSG)</i>
SINCE 2022	Co-lead , of the 'ESU delineation framework' - task force within the <i>SSC IUCN 'Conservation Genetics Specialist Group' (CGSG)</i>

Professional services

08/2026	Member of hiring committee for a Postdoctoral position at the Senckenberg Institute
SINCE 2025	Active member of the <i>EU Cost Action GENOA</i> ; 'Policy (WG1) and Engagement (WG4)' working groups
SINCE 2021	Active member , of the <i>SSC IUCN 'Conservation Genetics Specialist Group' (CGSG)</i>

Peer-review activities

SINCE 2020	<i>for Conservation Biology, Conservation Letters, Diversity & Distribution, Ecology Letters, Molecular Ecology</i>
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10 Teaching & Supervision Experience

Invited Lecturing& Instruction

- **University of Freiburg (2025–2026)**: Invited Lecturer for Master's modules "Genetic Methods in Wildlife Research" and "Genetic and genomic methods".
- **University of Tübingen (2019)**: Lecturer for Master's module "Introduction to Next-Generation Sequencing."
- **University of Tübingen (2017–2019)**: Teaching Assistant for the Master's module "Landscape Genetics."

Mentorship& Supervision

- **Junior Scientists**: Currently providing primary supervision to:
 - Mohammad Shuvo, **PhD student** at the University of Freiburg (2025–present), leading research that has resulted in two forthcoming publications with senior authorship.
 - Caroline Mouton, **Junior Scientist** at INBO, Belgium (2025–2026), within the GINAMO project, resulting in Mouton et al. (2026, submitted), with senior authorship.
- **Bachelor & Master students**: Successfully supervised seven students. Three of these projects resulted in co-authored publications.
 - Meike Suszka, M.Sc. (2026), University of Freiburg
 - Bianca Rau, M.Sc. (2021), University of Tübingen
 - Svenja Capitain, B.Sc. (2020), University of Tübingen
 - Heiko Hinneberg, M.Sc. (2020), University of Tübingen - Hinneberg et al. (2022)
 - Marcel Glück, M.Sc. (2020), University of Tübingen - Glück et al. (2022)
 - Paula Rotter, M.Sc. (2019), University of Tübingen - Geue et al. (2022)
 - Isabel Fraccaroli, M.Sc. (2019), University of Tübingen

11 Scientific Events & Knowledge Exchange

- **International Workshop Organisation and facilitation**:
 - In 2026 I secured €14,000 competitive funding and led the organisation of an international scientific workshop, including programme development, speaker coordination, participant engagement, and logistics.
 - In 2025/2026 I organised and facilitated scientific workshops and collaborative meetings involving researchers and conservation stakeholders in Norway, Italy and France within the GINAMO project.
 - In 2019 I lead the organization team of an university-internal conference (Meeting Steve) at the University of Tübingen.
- **Scientific Networking**: Developed and maintained international research networks through the GINAMO project, IUCN CGSG, ReGenMon, and EU COST Action GENOA.

12 Conferences Talks and Poster Presentations

Oral presentations

- 2026 ***Genetic Indicator Symposium***, by the Coalition for Conservation Genetics (online): “Assessment of indicators for bird species at the EU level, leveraging large-scale existing databases.” ****Invited***
- 2024 ***6th Annual Meeting in Conservation Genetics***, Lausanne, Switzerland: “A framework for identifying ESUs to support potential inclusion in the Red List: a practical guide for the protection of genetic diversity.”
- 2022 ***5th Annual Meeting in Conservation Genetics***, Edinburgh, United Kingdom: “Genetic diversity and introgression in the Norway – Siberian Spruce Species Complex: implications for conifer management and conservation.”
- 2021 ***Umeå University***, Sweden: “Mapping the biodiversity of today to protect it for the future – The influence of the environment on biodiversity, and its use in conservation”. ****Invited seminar talk***
- 2020 ***4th Annual Meeting in Conservation Genetics***, Frankfurt, Germany: “Landscape genomics as a useful tool for conservation prioritization: a multi-species study in Eastern Europe.”
- 2019 ***12th European Ornithologists’ Union Congress 2019***, Cluj-Napoca, Romania: “Environmental selection is a main driver of divergence in house sparrows (*Passer domesticus*) in Romania and Bulgaria”
- 2019 ***29th International Congress for Conservation Biology***, Kuala Lumpur, Malaysia: “Mapping adaptive genetic variation for conservation prioritization in Romania and Bulgaria”

Poster

- 2022 ***SSMPG Summer School***, Aussois, France: “A genetic diversity inventory and range-wide investigation of local adaptation of the Norway – Siberian Spruce Species Complex”
- 2021 ***1st EVOLTREE Conference***, Birmensdorf, Switzerland: “Landscape genomics of Norway Spruce (*Picea abies* [L.] Karst): a range-wide investigation of local adaptation.”
- 2018 ***3rd Annual Meeting in Conservation Genetics***, Vienna, Austria: “Landscape genomics as a useful tool for conservation prioritization: a multi-species study in Eastern Europe”

13 Academic References

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