**José Cerca**

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| **PersonALIA** |
| |  |  | | --- | --- | | **Born:** May 12th, 1990  **Address:** Dept. of Biosciences University of Oslo P.O. Box 1066 Blindern NO-0316 Oslo, Norway  **E-mail:** [jose.cerca@gmail.com](mailto:jose.cerca@gmail.com) | **Citizenship:** Portuguese  **Personal website:** [jcerca.github.io](https://jcerca.github.io)  **Phone number:** +47 459 51 359  **ORCID:** 0000-0001-7788-4367 |   **BIO & Vision**  As an evolutionary biologist, I am intrigued by the intersection of ecology and evolutionary biology, as well as the evolution of genomes. I leverage natural experiments found in archipelagos to identify and quantify evolutionary processes, as they provide unparalleled opportunities to connect ecological niches with evolution. To understand genome evolution, I utilize genomic tools, such as population-level data and comparative genomics data.  While I have a successful track record with 11 first-authored papers and over 1,000,000 euros obtained in grants, I prioritize being a supportive and empathetic colleague. I have trained students and colleagues from around 10 different institutions, including those without prior knowledge of genomics, by maintaining an open-door/zoom policy, fostering a positive atmosphere, responding promptly to emails, and teaching advanced bioinformatics classes. Furthermore, I have actively sought out collaborations in regions with limited resources and trained students in universities in Nigeria, Ecuador, Colombia, and Guatemala. I frequently present talks to my department, invite speakers, and participate in organizing social events, as I believe these activities promote collaboration, camaraderie, contentment, and productivity.  My **ultimate goal** is to establish myself as a prominent evolutionary biologist and lead my own research group. |
| **Professional experience**   |  |  |  | | --- | --- | --- | | Jan 2023 - *pres* | **Postdoctoral Researcher** – Center for Ecological & Evolutionary Synthesis, Department of Biology, University of Oslo  **PI** Prof. Kjetill S. Jakobsen  **Responsibility** Analyses of genomes, and population genomics | Oslo, *Norway* | | Aug 2020 – Dec 2022 | **Postdoctoral Researcher** – Department of Natural History, Norwegian University of Science and Technology  **Project title** DarwinPlants: Probing the genomic basis of rapid evolutionary diversification in the Galápagos daisy trees (genus *Scalesia*)  **PI** Prof. Michael D. Martin  **Responsibility** Analysis of differential gene expression and transcriptomic networks, phylogenomics, population genomics, genome assembly & annotation | Trondheim, *Norway* | | Aug 2019 – Jul 2020 | **Visiting Researcher** – Berkeley Evolab, Department of Environmental Science, Policy & Management  **Project title** Genomic basis of the Hawaiian spiny-leg adaptive radiation  **PI** Prof. Rosemary Gillespie  **Responsibility** Whole genome re-sequencing, population genomics,  genome assembly & annotation | Berkeley (CA), *USA* | |
| **Education**   |  |  |  | | --- | --- | --- | | Dec 2015 – **5th Jun 2020**  **(PhD conclusion date)** | **PhD in Evolutionary Genomics and Zoology**, University of Oslo (June 5th 2020)  **Thesis title** On the origins of cryptic species  **Main advisor** Prof. Torsten H. Struck | Oslo, *Norway* | | Sept 2012 - Jul 2014 | **MSc in Evolutionary Ecology** - Specialization in research in ecology (grade: 19/20 – ‘A’), University of Coimbra  **Thesis title** Pollinator preferences in a generalist plant hybrid zone  **Main advisor** Prof. Rubén Torices | Coimbra, *Portugal* | | Sept 2008 Jul 2012 | BSc in Biology (grade: 16/20 – ‘A’), University of Coimbra | Coimbra, *Portugal* |   **manuscripts in a final stage of preparation or submitted**   |  |  | | --- | --- | | **(4)** | *Invited to the 2nd round of review, Molecular Ecology* **J. Cerca,** D. D. Cotoras, C. G. Santander, J. Patiño, V. Bieker, L. Hutchins, J. Lagos-Morin, S. Kennedy, H. Krehenwinkel, E. Armstrong, J. Y. Lim, A. Rominger, J. Meier, M. Martin, M. Ravinet, D. Dimitrov, T. H. Struck, R. Gillespie Multiple paths towards repeated phenotypic evolution in the spiny-leg adaptive radiation (Tetragnatha; Hawaiʻi)  **Contribution:** Experimental design, molecular DNA sequencing, data analysis, drafting of the manuscript | | **(3)** | *Rejected from A. of Botany. In prep* B. B. Tiamiyu, **J. Cerca**, X. Zhang, H. Zhang, L. Li, J. Sun, W. Dong, T. Kuang, Y. Sun, T. Deng, H. Sun, H Wang Genomic insights into adaptation and spatial drivers of genetic structure in Sino-Japanese populations of Meehania montis-koyae (Lamiaceae)  **Contribution:** Training of the 1st author in genomic analyses, experimental design, revision of the manuscript | | **(2)** | *Invited to the 2nd round of review, American Journal of Botany* R. Torices, L. DeSoto, **J. Cerca**, L. Mota, A. Afonso Fruit wings accelerate germination in Anacyclus clavatus (Asteraceae)  **Contribution:** Experimental design, data generation, revision of the manuscript | | **(1)** | *In review, Molecular Ecology* **J. Cerca*,*** A simple conceptual framework and nomenclature for studying repeated, parallel and convergent evolution  **Contribution:** Single author-paper |   **Peer reviewed publications**   |  |  | | --- | --- | | **Bibliometric analysis** according to Google Scholar (citations), Journal Citation Reports (Impact factor; IF) and Scimago (Quartile ranking for the journal).  **Statement about publishing:** Science relies on the support of taxpayers’ funds. As researchers, we have a responsibility to ensure that our work is freely accessible, inclusive, and that funds are not diverted to benefit stockholders. To achieve this, I prioritize publishing in society-led journals, where any profits are reinvested in the research community, and opt for open access options whenever possible.  Total citations **582**  I-10 index **9**  H index **9**  Total # of papers **15**  # First author papers **11**  The left column below provides information on the paper number and its corresponding classification, where “s” denotes a society journal publication, “oa” denotes an open access publication, “u” denotes a paper with an undergraduate student as an author, “c” denotes a paper where the author is the correspondent author, “10” denotes a paper with over 10 citations, and “100” denotes a paper with over 100 citations. | | |  | **2023** | | **15**  c | **J. Cerca** … (28 authors), R. Gillespie, M. D. Martin Evolutionary Genomics of Island Radiations; ***Trends in Ecology & Evolution***  IF (5 year) = 21.01, **Q1 (top 1%)** in Ecology, Evolution, Behavior and Systematics  **Contribution** Analysis of the literature, drafting the manuscript, incorporating comments from co-authors | |  | **2022** | | **14**  oa / c | **J. Cerca#** … (24 authors)…, J. H. Leebens-Mack, L. Rieseberg, M. D. Martin# The genomic basis of the plant island syndrome in Darwin’s giant daisies; ***Nature Communications***  # Correspondent authors  IF (5 year) = 15.805, **Q1 (top 3%)** in Genetics and Molecular Biology (miscellaneous)  **Contribution** Experimental design, data analysis, writing | | **13**  oa | **J. Cerca^**, M. V. Westbury^, O. V. Shpak, M. P. Heide-Jørgensen, Ø. Wiig, E. D. Lorenzen, C. Lydersen, K. Kovacs, L. Bachmann High genomic diversity in the endangered East Greenland-Svalbard-Barents Sea stock of bowhead whales (*Balaena mysticetus*); ***Scientific reports***  **IF** (5 year) = 4.38, **Q1 (top 7%)** in Multidisciplinary.  **Contribution** Experimental design, data analysis | | **12**  s /oa / c | **J. Cerca**, E. E. Armstrong, J. Vizueta, R. Fernández, D. Dimitrov, B. Petersen, S. Prost, J. Rozas, D. Petrov, R. G. Gillespie: The *Tetragnatha kauaiensis* genome sheds light on spider genome evolution; ***Genome Biology and Evolution***  **IF** (5 year) = 4.216, **Q1 (top 6%)** in Ecology, Evolution, Behvior and Systematics,  **Contribution** Experimental design, genome annotation, functional & comparative genomic analyses, writing | | **11** | V. I. Radashevsky, V. V. Pankova, V. V. Malyar, **J. Cerca,** T. H. Struck; A review of the worldwide distribution of Marenzelleria viridis, with new records for M. viridis, M. neglecta and Marenzelleria sp. (Annelida: Spionidae); ***ZooTaxa***  **IF** (5 year) = 0.621, **Q2** in Animal Science and Zoology  **Contribution** DNA molecular work | |  | **2021** | | **10**  **c** | W. Sowersby\*, **J. Cerca\*,** B. Wong, T. Lehtonen, D. Chapple, M. Leal-Cardín, M. Barluenga^, M. Ravinet^ The role of admixture in the spread of the thick-lip ecotype in a cichlid fish radiation. ***Molecular Ecology***  \* Joint first authors; ^ joint senior authors  **IF** (5 year) = 6.185, **Q1 (top 3%)** in Ecology, Evolution, Behavior and Systematics  **Contribution** RADseq genomic data analysis, population genomics data analysis, writing | | **9**  s/ oa/u / c / 10 | **J. Cerca\****,* M. F. Maurstad\*u, N. Rochette, A. Rivera-Colón, N. Rayamajhi, J. Catchen^, T. H. Struck^ Removing the bad apples: a simple bioinformatic method to improve loci-recovery in *de novo* RADseq data for non-model organisms, ***Methods in Ecology and Evolution***  **IF** (5 year) = 6.514, **Q1 (top 2%)** in Ecology, Evolution, Behavior and Systematics  \*Joint first authors; ^ joint senior authors  **Contribution** Experimentaldesign,Student supervision,RADseq genomic data analysis, writing | | **8**  oa / c | **J. Cerca***,* A. Rivera-Colón, M. Ferreira, M. Ravinet, M. Nowak, J. Catchen, T. H. Struck Incomplete lineage sorting and ancient admixture, and speciation without morphological change in ghost-worm cryptic species, ***PeerJ***  **IF** (5 year) = 2.379, **Q1 (top 12%)** in Agricultural and Biological Sciences  **Contribution** Experimental design,RADseq genomic data generation, population genomics and phylogenomics data analysis, writing | |  | **2020** | | **7**  oa / c / 10 | **J.** **Cerca**, C. Meyer, G. Purschke, T. H. Struck. Delimitation of cryptic species reduces the geographical range of marine ghost-worms (*Stygocapitella*; Annelida, Sedentaria), ***Molecular Phylogenetics and Evolution***  **IF** (5 year) = 4.201, **Q1 (top 6%)** in Ecology, Evolution, Behavior and Systematics  **Contribution** Experimental design,fieldwork, wet-laboratory work and sequencing, data analysis, writing | | **6**  s/oa /c / 10 | **J.** **Cerca**, C. Meyer, D. Stateczny, D. Siemon, J. Wegbrod, G. Purschke, D. Dimitrov, T. H. Struck. Deceleration of morphological evolution in a cryptic species complex and its links to paleontological stasis, ***Evolution***  **IF** (5 year) = 4.201, **Q1 (top 5%)** in Ecology, Evolution, Behavior and Systematics  **Contribution** Experimental design, fieldwork, wet-laboratory work and sequencing, data analysis, writing | |  | **2019** | | **5**  s / c | **J. Cerca**, A. Agudo, S. Castro, A. Afonso, I. Alvarez, R. Torices. Fitness benefits and costs of floral advertising traits: insights from rayed and rayless phenotypes of *Anacyclus* (Asteraceae),***American Journal of Botany***  **IF** (5 year) = 3.06, **Q1 (top 13%)** in Ecology, Evolution, Behavior and Systematics  **Contribution** Experimental design, fieldwork, ecological data-analysis in R, writing | |  | **2018** | | **4**  c / 10 | **J. Cerca**, G. Purschke, T. H. Struck; Marine connectivity dynamics: Clarifying cosmopolitan distributions of marine interstitial invertebrates and the meiofauna paradox. ***Marine Biology***  **IF** (5 year) = 2.2, **Q1 (top 20%)** inEcology  **Contribution** Lead author, data-scoring of 1000+ publications, writing | | **3**  100 | T. H. Struck, J. Feder, M. Bendiksby, S. Birkeland, **J. Cerca**, V. Gussarov, S. Kistenich, K. Larsson, L.H. Liow, M. Nowak, B Stedje, L. Bachmann, D. Dimitrov; 2018 Finding evolutionary processess hidden in cryptic species. ***Trends in Ecology & Evolution***  **IF** (5 year) = 19.3, **Q1 (top 1%)** in Ecology, Evolution, Behavior and Systematics  **Contribution** weekly discussions with 1st author, contribution to the literature review, writing | |  | **2014-2013 (undergraduate researcher)** | | **2**  s / 10 | A. Afonso, S. Castro, J. Loureiro, L. Mota, **J. Cerca**, R. Torices (2014). The effects of achene type and germination time on plant performance in the heterocarpic *Anacyclus clavatus* (Asteraceae). ***American Journal of Botany***  **IF** (5 year) = 3.06, **Q1 (top 13%)** in Ecology, Evolution, Behavior and Systematics  **Contribution** Experimental design, data collection and writing | | **1**  10 | J. Loureiro, M. Castro, **J. Cerca**, L. Mota, R. Torices (2013) Genome size variation and polyploidy incidence in the alpine flora from Spain. ***Anales del Jardín Botánico de Madrid***  **IF** (5 year) = 0.74  **Contribution** Field collection, flow-cytometry analysis, laboratory work and writing |   **awards**   |  |  | | --- | --- | | 2021 | Best PhD/MSc paper award by the Natural History Museum in Oslo (~500 €) | | 2019 | Best poster award, XV EMPSEB (European Meeting of PhD Students in Evolutionary Biology; ~500 €) | | 2018 | Science communication Instagram Photo Competition #phdlifemn (9,7-inch, 32 GB iPad) | | 2017 | Best poster award, NORBIS annual meeting (500 NOK; ~ 52.5 €) | | 2016 | Best poster and speed presentation award, Forbio annual meeting (5 000 NOK; ~ 525 €) | | 2014 | 4th best individual speaker at national level - Portuguese National Debating Competition | | 2014 | “Top 3% student” of the Faculty for Sciences and Technology, University of Coimbra (~2.500 €) |   **Funding**   |  |  |  | | --- | --- | --- | | 2022 | EMBO travel fellowship to visit Prof. Bent Emerson (Spain) | 76,000 NOK (7,500 €) | | 2021 | DIKU - NORPART-2021/10475 Exchanges between Norway and Latin America to facilitating excellent joint graduate education in biodiversity genomics (co-leader with Michael D. Martin) | ~8,400,000 NOK (817,021€) | | 2021 | «Adaptation in the Anthropocene: the Iago Sparrow genome as a key to understand adaptation to anthropogenic environments», **Peder Sather** (PIs: José Cerca NTNU & Rauri Bowie, UC Berkeley) | ~225,000 NOK (22,000 €) | | 2021 | «Ecological speciation, polyploidy, and the rewiring of transcriptomic networks: untangling the drivers for genomic novelty and genomic functionality», **Norwegian Research Council** | 1,691,000 NOK (165,000 €) | | 2019 | «Genomics of Convergent Invertebrate Morphology» **Peder Sather Grant** (under R. Gillespie and T. H. Struck) | ~200,000 NOK (22,000 €) | | 2018 | «On the origin of cryptic species: Insights from the Stygocapitella subterranea species complex» **European Society of Evolutionary Biology** – Godfrey Hewitt Award | ~15,000 NOK (1,230 €) | | 2019-16 | **12 funded grants** (including travel grants, student-oriented funding and stipends) as part of my PhD project | ~ 200,000 NOK (20,000 €) |   **Funding as third party**   |  |  |  | | --- | --- | --- | | 2023 | «Ecological speciation at a continental scale: Developing a genomic framework to disentangle the Eurasian Crossbills (*Loxia* spp.) radiation» (PI: Loïs Rancilhac, Uppsala)  **Role** Population and comparative genomics data analysis | 360,000 SEK | | 2022 | «Using avian comparative genomics to investigate adaptation to extreme arid environments» **BBSRC International Partnerships Funding** (PI: Mark Ravinet, U. of Nottingham )  **Role** Population and comparative genomics data analysis | 19,100 £ | | 2020 | «Urban evolution in Californian Black widow spiders» **California Conservation Genomics Project** (PI: Rosemary Gillespie, UC Berkeley)  **Role** Bioinformatician (experimental design, data analysis) | 50,000 US$ |   **Journal covers**   |  |  | | --- | --- | | **1** | Evolution, January 2020, for “Deceleration of morphological evolution in a cryptic species complex and its links to paleontological stasis” |   **Non-Peer reviewed publications (Incl. book chapters and responses)**   |  |  | | --- | --- | | **5** | T.H. Struck, **J. Cerca** (2020) Extant Cryptic Species as Systems to Understand Macro-Evolutionary Stasis; Proceedings of the Systematics Association, special volume on Cryptic Species  **Contribution:** Writing, literature survey | | **4** | T.H. Struck, **J. Cerca** (2019) Evolutionary Significance of Cryptic Species; ***Encyclopaedia of Life Sciences***  **Contribution:** Writing, figure design | | **3** | T. H. Struck, J. Feder, M. Bendiksby, S. Birkeland, **J. Cerca**, V. Gussarov, S. Kistenich, K. Larsson, L.H. Liow, M. Nowak, B Stedje, L. Bachmann, D. Dimitrov (2018) Cryptic Species – More Than Terminological Chaos: A Reply to Heethoff ***Trends in Ecology & Evolution***; 33 (5): 310-312  **Contribution:** Writing | | **2** | J. Loureiro, M. Castro, **J. M. de Oliveira**, P. Antunes, J. Canhoto, S. Castro; Aplicações da Citometria de Fluxo em Horticultura (2012). ***Revista da Associação Portuguesa de Horticultura*** *(In Portuguese)*  **Contribution:** Flow cytometry data generation and writing | | **1** | S. Perkins, J. Perkins, **J.C. de Oliveira**, M. Castro, S. Castro, J. Loureiro; Weighing in: Discovering the ploidy of hybrid elepidote rhododendrons (2012). ***Rhododendrons, Camellias and Magnolias*** 34-48.  **Contribution:** Flow-cytometry data generation and writing |   **Invited oral Communications (international conferences)**   |  |  | | --- | --- | |  | *x* - declined | | 2024 | XX International Botanical Congress (Spain, hosted by Prof.s Luis Valente and Jairo Patiño) | | 2023*x* | Plant & Animal Genome (San Diego), Asteraceae Genome Evolution (hosted by Prof. Jennifer Mandel) | | 2022*x* | Plant & Animal Genome (San Diego), Asteraceae Genome Evolution (hosted by Prof. Jennifer Mandel) | | 2017 | BioSyst.EU Meeting. Gothenburg, Sweden (audience of ~60, hosted by Prof. Hugo de Boer) |   **Invited oral Communications (Dept seminars)**   |  |  | | --- | --- | |  | *x* – declined; **Breakdown 14 talks in 7 different countries** (Denmark, Iceland, Ecuador, Norway, Portugal, UK, Switzerland, Sweden). | | 2023 | University of Bern (Switzerland, hosted by Prof. Katie Peichel, upcomming) | | 2023 | U. of Nottingham, School of Life Sciences (UK, audience of 30, hosted by Dr Mark Ravinet) | | 2022 | UC Davis, Plant Biology Department (California, USA, audience of 20, hosted by Prof. Neelima Sinha) | | 2022 | UC Berkeley, Botany Lunch Talk (California, USA, audience of 20, hosted by Prof. Bruce Baldwin) | | 2022 | Tiputini Biodiversity Station (Ecuador, audience of 20, hosted by Gabriela Guijarro) | | 2022 | Charles Darwin Foundation (Galápagos-Ecuador, audience of 15, hosted by Dr. Patricia Jaramillo) | | 2022 | University San Francisco de Quito (Ecuador, audience of 30, hosted by Dr. Rivas-Torres) | | 2022 | Norwegian U. of Life Sciences, CiGeNe seminar (audience of 40, hosted by Dr. Marie Saitou) | | 2022 | University of Iceland (audience of 20, hosted by Quentin Horta-Lacueva) | | 2021 | Late Lunch Talk, University of Oslo (Norway, audience of 50, hosted by Oliver Kersten) | | 2021 | University of Hawai’i at Hilo (USA, audience of 40, hosted by Prof. Matt Knope) | | 2021 | The International Compositae Alliance (TICAtalks; audience of 50, hosted by TICA) | | 2021 | ITQB, U. Nova de Lisboa (Portugal , audience of 70, hosted by Prof. Rita Abranches) | | 2019 | California Academy of Sciences (USA, audience of 15, hosted by Dr. Athena Lam) | | 2019*x* | Evolutionary Genomics Seminars, Centre for GeoGenetics (Natural History Museum of Denmark) | | 2018 | Department of organismal biology, Uppsala University (Sweden; audience of 30) |   **Oral communications**   |  |  | | --- | --- | |  | **Breakdown 3 talks in Internal Conferences** (ESEB, EMPSEB, GIGA)**, 3 online, and 7 National Conferences** (UK, Norway, Portugal) | | 2023 | PopGroup 56, Queen Mary University of London (UK) | | 2022 | NORBIS - Norwegian Conference for Bioinformatics (Norway) | | 2022 | Meeting of the European Society for Evolutionary Biology (ESEB) | | 2022 | Online Plant Genome Conference | | 2020 | Virtual Genomics Social Hour – Long read sequencing & Genome Assembly | | 2020 | Virtual Genomics Social Hour – RADseq & population genetics | | 2019 | European Meeting of PhD Students in Evolutionary Biology. Pedrogão, Portugal (EMPSEB) | | 2019 | Forbio annual meeting. Trondheim, Norway | | 2018 | GIGA (Global Invertebrate Genomics Alliance). Curaçao, Dutch Antilles | | 2018 | Forbio annual meeting. Tromsø, Norway | | 2017 | Young Systematics Forum. Natural History Museum, England | | 2017 | ForBio annual meeting. Bergen, Norway | | 2015 | IV Congreso Ibérico de Ecología. Coimbra, Portugal |   **Research stays (> 3 months)**   |  |  | | --- | --- | | **2022** | **Rivas-Torres Lab** at University San Francisco de Quito (Ecuador; 3 months)  **Purpose:** Network | | **2021-22**  Nov-Feb | **Galápagos Science Centre** (S. Cristóbal, Galápagos) & **Charles Darwin Foundation** (S. Cruz, Galápagos)  **Purpose:** Acquire knowledge in Galápagos Flora through fieldwork and collaboration | | **2019**  Jan-Mar | **Blaxter lab** at the University of Edinburgh (Scotland; 3 months);  **Purpose:** Acquire knowledge in genome assembly and improve my bioinformatics | | **2018**  May-Aug | **Catchen lab** at the University of Illinois at Urbana Champaign (USA; 4 months);  **Purpose:** Acquire knowledge in RADseq data analyses, population genomics and bioinformatics |   **commisions of trust**   |  |  | | --- | --- | | 2023 | **Grant reviewer** for the **Irish Research Council** (1 proposal reviewed) | | 2018-19 | **Grant reviewer** for theGraduate Research Excellence Grants - R.C. Lewontin Early Award of the Society of Study of Evolution (33 proposals reviewed each year) | | 2017-18 | **Grant reviewer** for the “Marie Skłodowska-Curie Fellowships training program and potential hosts” workshop of the Norwegian Research School in Biosystematics (FORBIO) (total of 5 proposals reviewed) |   **Service To Community**   |  |  | | --- | --- | | 2023 | **Conference organization** “Norwegian Biodiversity & Genomics Conference 2023” (~120 participants) | | 2022 | **Lead of the ESEB symposium ‘Repeated and parallel evolution’**. Invited speakers: (Dr. Joana Meier – Sanger Institute; Dr. Sean Stankowsky – IST Austria; Dr. Gabriel Jamie – U. of Cambridge) | | 2022 | **Co-lead on a special edition on ‘adaptive and non-adaptive Radiations’** to the Cold Spring Harbor Special Series: Coordination of 4 papers, lead of a flagship paper | | 2021 | **Three consulting sessions** on RADseq & population genomics (Physalia research school) | | 2021 | **Genomics social hour, island adaptive radiations** (invited speakers: Dr. Christine Parent – U. of Idaho, Dr. Matthew Knope – U. of Hawai’i, Dr. Anthony Geneva – Rutgers U.; 100 participants) | | 2020 | **Genomics social hour, urban evolution** (invited speakers: Dr. Mark Ravinet – U. of Nottingham, Dr. Marta Szulkin – U. of Warsaw, Dr. Kristin Winchell – Washington U. in St. Louis; 30 participants) | | 2018-19 | **Member** of the **Graduate Student Advisory Committee** of the **Society of Study of Evolution** | | 2016 | **Symposium organization** “Elephant in the room: Evolutionary and Ecological implications of cryptic speciation”, University of Oslo (~60 participants) | | 2013-14 | **Treasurer**, Debating Union, University of Coimbra | | 2013-14 | **Student representative**, Master’s in Ecology, University of Coimbra | | 2011-12 | **Committee member** of the Ecological Group, University of Coimbra | | 2009-11 | **Vice-president**, Biology Student’s Union, University of Coimbra |   **Institutional responsabilities**   |  |  | | --- | --- | | 2023-25 | 1,690 hours (25% of my Postdoc) dedicated to **duty work** (Teaching and project coordination duties) | | 2023 | **Hiring committee** for 1 PhD and 2 Postdocs (University of Oslo) | | 2023 | **Co-organization of the journal club** “Is evolution predictable?” (~15 participants; University of Oslo) | | 2017 | **Intellectual, graphic design** and **writing input** on the ITN Plant.ID – Molecular Evolution of Plants (funded ca. 4.000.000 €) | | 2015-19 | 1,690 hours (25% of my PhD) dedicated to **duty work** (Teaching and curatorial duties) |   **Teaching Experience**   |  |  | | --- | --- | |  | **Breakdown: Teaching assistant in 6 courses (2 for MSc/PhD-level, 4 for PhD-level), Lecturer in 8 courses (2 BSc-level, 1 MSc-level, 5 PhD-level), Course organizer and lecturer in 4 (4 PhD-level)** | | 2023 | **Scientific writing** (***Lecturer,*** 1 lecture on island biogeography, 15 students, PhD level, U. Oslo) | | 2023 | **Evolution** (***Lecturer*** 4 lectures on biogeography, speciation, and gene flow; 20 students, BSc/MSc level, U. Oslo) | | 2022 | **Speciation Genomics** (***Teaching assistant***, PhD level class; 35 students) | | 2022 | **Introduction to Bioinformatics** (***Course design & lecturer,*** PhD level class; 65 students) | | 2021 | **Oh-know: Online hosted-Kmer non-model organism workshop** (***Course design & lecturer***; PhD level class; 50 students) | | 2021 | **Introduction to Bioinformatics** (***Course design & lecturer***; PhD level class 32 students) | | 2021 | **Biogeography** (***Lecturer*** in island biogeography, 30 students, BSc level, NTNU) | | 2019 | **Physalia: Rad-Seq data analysis** (***Teaching assistant***; PhD level class; 30 students) | | 2019 | **ForBio Workshop: Proposal writing** (***Course design & lecturer***; PhD level class; 25 students) | | 2018 | **Introduction to Bioinformatics for Biosystematics** (***Teaching assistant***; PhD level class; 33 students) | | 2018 | **Evolution and systematics of the Animal kingdom** (***Lecturer***; MSc level class; 5 students) | | 2017 | **High Throughput Sequencing technologies and bioinformatics** (***Teaching assistant*** in the **Transcriptomics** module; MSc & PhD level class; 40 students) | | 2017 | **Phylogenomics** (***Teaching assistant*** in the **R lesson**; PhD level class; 25 students) | | 2016-18 | **Molecular Evolution** (***Teaching assistant***, ***lecturer***; MSc & PhD class; 36 students) |   **Phd Student supervision**   |  |  |  | | --- | --- | --- | | 2022-25 | Jaime Morin (“Phylogenomics and population genomics of *Pyrrhura* parrots uing ancient and modern DNA”) | Co-supervisor (NTNU) |   **Non-official Phd Student supervision / contribution to thesis**   |  |  |  | | --- | --- | --- | | 2021-22 | Freddy Gutierrez (UC Berkeley, USA) | Experimental design, genomics training  Genomics of Adaptive radiation | | 2022- | Bashir Tiamiyu (U of Illorin, Nigeria) | Genomics training –  Plant biogeography genomics | | 2020-22 | Rosa Jiménez (U San Carlos of Guatemala, Guatemala) | Genomics training –  Bird evolutionary genomics | | 2022- | Francesco Zapelloni (Universitat de les Illes Balears, Spain) | Genomics training –  Invertebrate genomics | | 2020 | Leke Hutchins (UC Berkeley, USA) | Molecular DNA lab training –  Metabarcoding of Hawaiian Arthropods |   **BSC / MSC Student supervision**   |  |  |  | | --- | --- | --- | |  | **Breakdown 12 students from 5 universities in 3 different countries** (Ecuador, Norway, USA) |  | | 2022 | **BSc** Mishell Vasquez Morales (Asteraceae genomics, tbd) | Co-advisor (U. Of Hawai’i, Hilo, USA) | | 2022 | **BSc** Pavel Énriquez (“Chloroplast phylogenetics of the *Scalesia* radiation”) | Main advisor(ESPE University, Ecuador) | | 2021-22 | **BSc honors’ student:** Heidi Yang (“Evolution of transposable elements in the *Tetragnatha* radiation”) | Main advisor (UC Berkeley, USA) | | 2020-22 | **MSc** Nina Casillas (“Genomic basis for stripe morphs in European adders”) | Co-advisor (NTNU) | | 2020-21 | **MSc** Adel Dehkordi (“Population genomic signatures of glaciation in *Stygocapitella zecae* and *S. westheidei*”) | Co-supervisor (University of Oslo) | | 2020-21 | **MSc** Jaime Morin Lagos (“A comprehensive mitogenome phylogeny of the avian tribe Arini with emphasis in *Ara* species”) | Co-supervisor (NTNU) | | 2019 | **BSc** Kenzie Weiss-Mercord(“Parallel evolution, Convergence and adaptation in the *Tetragnatha* spider adaptive radiation”) | Main advisor (UC Berkeley) | | 2019 | **BSc** Shi Lin (“Parallel evolution, Convergence and adaptation in the *Tetragnatha* spider adaptive radiation”) | Main advisor (UC Berkeley) | | 2019-21 | **BSc** Marius Maurstad (“Removing the poisoned apples: a simple method to improve RADseq inference”) | Main advisor (University of Oslo) | | 2019-21 | **MSc** Stian Helsem (“How old are these worms? Dating the Annelid phylogenetic tree”) | Co- advisor (University of Oslo) | | 2018-20 | **MSc** Astrid Bang (“Metabarcoding of Kinorhyncha from the Oslo Fjord”) | Co- advisor (University of Oslo) |   **Peer Review contribution**   |  |  | | --- | --- | | **Statement about reviewing:** Science depends on taxpayers’ money. We owe them that our science is free, inclusive, and that our funds do not end up in the pockets of stockholders. I therefore prioritize reviewing society-ran journals, where profits flow back to the research community. **s** = society journal; **#** = total for that journal | | | 2023  (3 papers) | Review for Heredity (s; 1), Journal of Biogeography (s; 1), Genome Research (1) | | 2022  (7 papers) | Review for IBIS (s; 1); Molecular Ecology Resources (1); Molecular Biology & Evolution (s; 3); Systematic biology (s; 2) | | 2021  (10papers) | Systematic Biology (**s**; 1); Genome Biology and Evolution (**s**; 4); Journal of Heredity (**s**; 1); Journal of Animal Ecology (**s**; 1); Journal of Evolutionary Biology (**s**; 2) ; Molecular Ecology (1) | | 2020  (5 papers) | PNAS (1); Heredity (**s**; 1); Molecular Phylogenetics and Evolution (1); BMC Evolutionary Biology (1); Journal of Animal Ecology (**s**; 1) | | 2019 | Heredity (**s**; 1); Systematics and Biodiversity (1) | | 2018 | Zoologica Scripta (**s**; 1); Evolution (**s**; 1) |   **Science communication**   |  |  |  | | --- | --- | --- | | 2021 - | YouTuber in *PT*: Channel on data visualization (~50 followers)  YouTuber in *EN*: Channel on genomic data analyses (~50 followers) | 2 videos  >10 videos | | 2018 - | 5 contributions to local high schools and talks to biology undergraduates about scientific careers and challenges | 2 talks at high-schools, 3 talks towards undergraduates | | 2020 | **J. Cerca**, A. Johnsen, T. H. Struck, L. Bachmann: Naturhistoriske samlinger i den molekylære æraen: En kostbar hobby eller en bærebjelke for moderne forskning? Naturen | Article about Natural History Collections in the journal ‘Naturen’ | | 2017 | Appointed as a blogger in De Rerum Natura <http://dererummundi.blogspot.com/> | Portugal’s most read science blog | | 2015-18 | Several contributions to the Portuguese Society of Education and Promotion of Evolution (NEDE-APBE) and Forskning.no (Norway) |  | | 2016 | Chief Judge in the Debating competition “Brave New World” (focusing on scientific topics) | British Parliamentary Debate | |

**Research expeditions**

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| 2022 | Cabo Verde, islands of Santo Antão, São Vicente, Santiago, Fogo and Rombos (uninhabited islets) (***Main organizer*** – 5 weeks; Collection of birds) |
| 2021 | Galápagos, islands of Floreana, Santa Cruz (uninhabited islets) (***Main organizer*** – 2 weeks; Collection of plants) |
| 2018 | Volchanets, Far-East Russia (***Main organizer*** – 2 weeks; Collection and identification of interstitial invertebrates) |
| 2018 | Sylt, Germany (***Main organizer, alone in the field*** – 2 weeks; Collection of Jaw-worms (Gnathostomulida) as part of a collaboration) |
| 2017 | Bodø, Tromsø, Norway (***Main organizer, alone in the field*** – 4 weeks; Collection and identification of interstitial invertebrates) |
| 2016 | Massachusets, Maine and Washington State, USA (***Main organizer, alone in the field*** – 5 weeks; Collection and identification of interstitial invertebrates) |
| 2016 | Plymouth, London, Cardiff, UK (***Main organizer, alone in the field*** – 4 weeks; Collection and identification of interstitial invertebrates) |
| 2016 | Roscoff, France (***participant*** – 2 weeks; Collection and identification of interstitial invertebrates) |
| 2013 | Andalucía, Spain (***participant*** – 5 weeks; Observing and capturing pollinators for reference collection) |