

4 CV of the researcher

CNRS researcher
Université Grenoble Alpes

E-mail : desjonqc@univ-grenobles-alpes.fr
Phone: +33677346135

Work address: Laboratoire d'Ecologie Alpine
Bâtiment D, 2233 Rue de la Piscine
38610 Gières, France

Date of birth: 29/11/1989
web: <https://desjonqu.github.io>

Current appointment

01/2024-présent: **Chargée de recherche classe normale - CNRS** – Université Grenoble Alpes, Laboratoire d'écologie Alpine (Grenoble, France).

Overview

Research : I am a CNRS researcher in Ecoacoustics. My work consists in studying *sounds* emanating from ecosystems, communities and populations in order to understand their *diversity* and *evolution* and interpreting *ecological dynamics and functioning*.

Diplomas : PhD (2016, Muséum national d'Histoire naturelle, Paris), Master (2012, École Normale Supérieure, Paris), Bachelor (2010, École Normale Supérieure, Paris).

Publications : **30** in peer reviewed journals (774 citations; H index: 14, source: [google scholar](#)), **14** as first author, **5** as last author, **14** as corresponding author and **24** without my PhD advisors.

Presentations : **49** presentations in conferences or invited seminars (16 talks, 16 seminars, 12 invited talks, 3 posters, 1 plenary and 1 twitter conference) and **5** symposia organised.

Funding : Total of about **1,393,000€** (about 1,239,000€ as PI).

Teaching : **>200h** of teaching to master students in statistics, general ecology, population genetics, biodiversity inventory. Teaching position at the Natural history Museum during PhD. **20h** of science communication to 12-14 year old students.

Mentoring : **23** students (14 as main supervisor) and **3** post-doctoral fellows as co-supervisor.

Reviewing : For **23** scientific journals, evaluator for research projects, guest editor for *Freshwater Biology* and associate editor for *Methods in Ecology and Evolution*

Education

01/09/2013-21/11/2016: **PhD** – Muséum National d'Histoire Naturelle (MNHN), Paris – Population biology and ecology.

Thesis: Acoustic diversity and ecology of freshwater environments: exploration in temperate environments. Supervision: Jérôme Sueur (MNHN) and Fanny Rybak (Université Paris-Sud).

01/09/2009-31/08/2013: **Diplôme de l'ENS ('ENS degree')** – Ecole Normale Supérieure de Paris (ENS) – Sciences, technologies, health.

- 01/09/2010-31/08/2012: **Master's degree** – Ecole Normale Supérieure de Paris – Ecology, biodiversity and evolution.
Second year internship: Effect of plant host quality on cannibalism in aphids. Catherine Collins (Imperial College, Londres, UK) and Simon Leather (Imperial College, Londres, UK). Duration: 5 months.
First year internship: Evolution patterns of spiders in the Pacific Islands through molecular phylogeny. Rosemary Gillespie (University of California-Berkeley, USA). Duration: 4 months.
- 01/09/2009-31/08/2010: **Bachelor's degree** – Ecole Normale Supérieure de Paris – Biology.
Internship: Patterns of Coleoptera diversity in the Saratsi mountain range, Espiritu Santo, Vanuatu. Jürgen Schmidl (Friedrich-Alexander Universität Erlangen-Nürnberg, Allemagne). Duration: 2 months.
- 01/09/2007-31/08/2009: Preparation school to the competitive examination for the admission to the "Grandes-Ecoles" (Lycée Saint-Louis, Paris).

Professional experience

- 01/09/2023-31/12/2023: **Post-doctoral fellow** – Université Grenoble Alpes, Laboratoire d'écologie Alpine (Grenoble, France). *Development of a conceptual and methodological framework in functional ecology to analyse acoustic data* (Supervised by Wilfried Thuiller).
- 01/06/2022-30/11/2022: **Post-doctoral fellow** – Université Grenoble Alpes, Laboratoire d'Ecologie Alpine (Gières, France). *Passive acoustic monitoring of Alpine altitudinal gradients* (supervised by Wilfried Thuiller).
- 01/04/2020-31/05/2022: **Post-doctoral fellow** – St Andrews University, School of Biology (St Andrews, UK) and University of Wisconsin-Milwaukee, Biological sciences (Milwaukee, USA). *The role of social plasticity in reproductive isolation* (supervised by Nathan Bailey and Rafael Rodríguez).
- 01/04/2019-31/03/2020: **Post-doctoral fellow** – Universidad Autónoma de Madrid, Terrestrial Ecology Group (Madrid, Spain). *Climate change and breeding tolerance in frogs* (supervised by Diego Llusia).
- 15/01/2017-14/01/2019: **Post-doctoral fellow** – University of Wisconsin-Milwaukee, department of biological sciences (Milwaukee, USA). *Social ontogeny of insect communication* (supervised by Rafael Rodríguez).
- 01/09/2013-31/08/2016: **Teaching contract** – MNHN (Paris, France) – 64 hours each year (total 192 hours) – Level: Masters degree – Classes taught: *statistics, ecology, population genetics and experimental methods for biodiversity inventory*.
- 01/09/2012-31/08/2013: **Internship** – MNHN, Institut Systématique, Evolution et Biodiversité (Paris, France). *Diversity and structure of freshwater acoustic communities in temperate ecosystems* (supervised by Jérôme Sueur and Fanny Rybak).
- 01/09/2010-31/05/2013: **Position as examiner and instructor** at Lycée Saint Louis – 50 hours – preparation school to the competitive examination for the admission to the "Grandes-Ecoles" – Classes: *oral examinations in biology, chemistry and physics*.

4.1 Career break

- 01/12/2022-31/08/2023: **Maternity leave** – Birth 03/02/2023.

Accepted publications in peer reviewed journals

1. A. Rodríguez Ballesteros, C. Desjonquères, V. Hevia, M. García Llorente, J.S. Ulloa, D. Llusia Genique (2024). Towards acoustic monitoring of bees: wingbeat sounds are related

- to species and individual traits. *Proceedings of the Royal Society B*.
2. **C. Desjonquères***, S. Linke, J. Greenhalgh, F. Rybak, & J. Sueur (in press). The potential of acoustic monitoring of aquatic insects for freshwater assessment. *Proceedings of the Royal Society B*.
 3. I. Escalante, J. R. Kellner, **C. Desjonquères**, G. M. Noffsinger, L. A. Cirino, A. N. Rodríguez, S. A. DeLong & R. L. Rodríguez (2024). On the function of a female-like signal type in the vibrational repertoire of Enchenopa male treehoppers (Hemiptera: Membracidae). *Journal of Evolutionary Biology*, 37(1), 110-122.
 4. **C. Desjonquères***, B. Speck, S. Seidita, L. A. Cirino, I. Escalante, C. Sergi, J. Maliszewski, C. Wiese, G. Hoebel, N. W. Bailey & Rodríguez, R. L. (2023). Social plasticity enhances signal-preference codivergence. *The American Naturalist*, 202(6), 000-000.
 5. S. R. J. Ross, D. P. O'Connell, J. L. Deichmann, **C. Desjonquères**, A. Gasc, J. N. Phillips, S. S. Sethi, C. M. Wood & Z. Burivalova. (2023). Passive acoustic monitoring provides a fresh perspective on fundamental ecological questions. *Functional Ecology*, 37(4), 959-975.
 6. T. Bradfer-Lawrence, **Desjonquères, C.**, A. Eldridge, A. Johnston, & O. Metcalf. (2023). Using acoustic indices in ecology: Guidance on study design, analyses and interpretation. *Methods in Ecology and Evolution*, 14(9), 2192-2204.
 7. **C. Desjonquères***, & R. L. Rodríguez. (2023). The direction and strength of social plasticity in mating signals and mate preferences vary with the life stage of induction. *Animal Behaviour*, 200, 255-261.
 8. L. A. Cirino, I. D. Gallagher, **C. Desjonquères**, & R. L. Rodríguez. (2023). Robust mate preferences despite means and opportunity for mate choice copying in an insect. *Animal Behaviour*, 200, 137-146.
 9. Ignacio Escalante, Jerald R. Kellner, Rafael L. Rodríguez, & **Camille Desjonquères**. 2022. A female mimic signal type in the vibrational repertoire of male Enchenopa treehoppers. *Behaviour*, 159 (13-14), 1319-1340.
 10. **Desjonquères C.***, S. Villén-Pérez, P. de Marco, R. Márquez, J.F. Beltrán & D. Llusia. 2022. Acoustic species distribution models (aSDMs): A framework to forecast shifts in calling behaviour under climate change. *Methods in Ecology and Evolution*.
 11. Bailey N. W., & **Desjonquères C.** 2022. The Indirect Genetic Effect Interaction Coefficient Ψ : Theoretically Essential and Empirically Neglected. *Journal Of Heredity*, 113 (1), 79-90.
 12. Bailey N. W., **Desjonquères C.**, Drago A., Rayner J. G., Sturiale S. L., & Zhang X. 2021. A neglected conceptual problem regarding phenotypic plasticity's role in adaptive evolution: The importance of genetic covariance and social drive. *Evolution Letters*, 5(5), 444-457.
 13. **Desjonquères C.***, Maliszewski J., & Rodríguez R. L. 2021. Juvenile social experience and practice have a switch-like influence on adult mate preferences in an insect. *Evolution*, 75(5), 1106-1116.
 14. Abrahams C., **Desjonquères C.**, & Greenhalgh J. 2021. Pond Acoustic Sampling Scheme: A draft protocol for rapid acoustic data collection in small waterbodies. *Ecology and Evolution*.
 15. **Desjonquères C.***, Holt R., Speck B., & Rodríguez R.L. 2020. The relationship between a combinatorial processing rule and a continuous mate preference function in an insect. *Proceedings of the Royal Society B*, 287 (1935), 20201278.

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16. Speck B., Seidita S., Belo S., Johnson S., Conley C., **Desjonquères C.** & Rodríguez R.L.. 2020. Combinatorial signal processing in an insect. *The American Naturalist*, 196 (4), 406-413.
17. Van der Lee G. H., **Desjonquères C.***, Sueur J., Kraak M. H. S. & Verdonchot P. F. M. 2020. Freshwater ecoacoustics: listening to the ecological status of multi-stressed lowland waters. *Ecological Indicators*, 113, 106252.
18. Greenhalgh J. A., Genner M. J., Jones G., & **Desjonquères C.** 2020. The role of freshwater bioacoustics in ecological research. *WIREs Water*, 7(3), e1416.
19. Moreira Sugai L. S., **Desjonquères C.**, Silva T., & Llusia D. 2019. A roadmap for survey designs in terrestrial acoustic monitoring. *Remote Sensing in Ecology and Conservation*, 6 (3), 220-235.
20. Linke S., Gifford T. & **Desjonquères C.**. 2020. Six steps towards operationalising freshwater ecoacoustic monitoring. *Freshwater Biology*, 65 (1), 1-6.
21. **Desjonquères C.***, Gifford T. & Linke S. 2020. Passive acoustic monitoring as a potential tool to survey animal and ecosystem processes in freshwater environments. *Freshwater Biology*, 65 (1), 7-19.
22. Linke S., Decker E., Gifford T. & **Desjonquères C.** 2020. Diurnal variation in freshwater ecoacoustics: implications for site-level sampling design. *Freshwater Biology*, 65 (1), 86-95.
23. Karaconstantis C., **Desjonquères C.***, Gifford T. & Linke S. 2020. Spatio-temporal heterogeneity in river sounds – disentangling micro- and macro-variation in a chain of waterholes. *Freshwater Biology*, 65 (1), 96-106.
24. **Desjonquères C.***, Rybak F., Ulloa J. S., Kempf A., Bar Hen A., & Sueur J. 2020. Monitoring the acoustic activity of an aquatic insect population in relation to temperature, vegetation and noise. *Freshwater Biology*, 65 (1), 107-116.
25. **Desjonquères C.***, Speck B. & Rodríguez R. L. 2019. Signalling interactions during ontogeny are a cause of social plasticity in *Enchenopa* treehoppers (Hemiptera: Membracidae). *Behavioural processes*, 166, 103887.
26. **Desjonquères C.***, Maliszewski J., Lewandowski E. N., Speck B. & Rodríguez R. L. 2019. Social ontogeny in the communication system of an insect. *Animal Behaviour*, 148, 93-103.
27. **Desjonquères C.***, Rybak F., Castella E., Llusia D. & Sueur J. 2018. Acoustic communities reflects lateral hydrological connectivity in riverine floodplain similarly to macroinvertebrate communities. *Scientific Report*, 8 (1), 14387.
28. Linke S., Gifford T., **Desjonquères C.**, Tonolla D., Aubin T., Barclay L., Karaconstantis C., Kennard M., Rybak F. & Sueur J. 2018. Freshwater ecoacoustics as a tool for continuous ecosystem monitoring. *Frontiers in Ecology and the environment*, 16(4), 231-238.
29. **Desjonquères C.***, Rybak F., Depraetere M., Gasc A., Le Viol I., Pavoine S., & Sueur J. 2015. First description of underwater acoustic diversity in three temperate ponds. *PeerJ*, 3, e1393.
30. Cooper L. C., **Desjonqueres C.**, & Leather S. R. 2014. Cannibalism in the pea aphid, *Acyrtosiphon pisum*. *Insect science*, 21(6), 750-758.

Other scientific contributions

1. Linke S., **C. Desjonquères**, T. Gifford & L. Barclay. 2022. Freshwater Ecoacoustics—A New Addition to the Limnologists' Methods Toolkit. In: Reference Module in Earth Systems and Environmental Sciences. 4, 657-666.

*First authored paper

2. Sueur J., Aubin T., Simonis C., Lellouch L., Brown E. C., Depraetere M., **C. Desjonquères**, Fabianek F., Gasc A., LaZerte S., Lees J., Marchal J., Pavoine S., Stotz A., Villanueva-Rivera L. J., Ross Z., Witthoft C. G. & Zhivomirov H. (2021). Package 'see-wave'.
3. Linke S., Gifford T. & **Desjonquères C.** 2020. Passive acoustics: a new addition to the freshwater monitoring toolbox. Special issue in *Freshwater Biology*.
4. **Desjonquères C.** 2018. Ecoacoustics: The Ecological Role of Sounds edited by Almo Farina and Stuart H. Gage. *The Quarterly Review of Biology*, 93(2), 143-144.
5. Rodríguez R. L. & **Desjonquères C.** 2019. Vibrational signals: sounds transmitted through solids. In: Choe, J.C. (Ed.), *Encyclopedia of Animal Behavior, (2nd ed.)*. 1, 508–517. Elsevier, Academic Press.
6. **C. Desjonquères**. 2016. Acoustic diversity and ecology of freshwater environments: exploration in temperate environments. **PhD dissertation**.

Communications at conferences and seminars

- 08/06/24:** Ecoacoustics 2024. Madrid, Spain. Oral Presentation, invited talk and symposium host.
- 26/06/24:** Emerging Bioacoustician days. Brest, France. Plenary talk.
- 12/04/24:** Conférence "Erosion et Biodiversité" de l'OSUG. Grenoble, France. Invited talk.
- 27/11/23:** Atelier Biodiversité OSUG, Grenoble, France. Invited talk.
- 08/11/23:** Sounds of Life, online. Invited talk.
- 08/11/23:** EcoSum autumn school, Grenoble, France. Invited seminar.
- 27/10/23:** International Bioacoustic Congress, Sapporo, Japon. Oral Presentation and symposium co-host.
- 05/10/23:** Webinaire de Wildlife Acoustics, online. Invited seminar.
- 28/09/23:** Séminaire du laboratoire d'Écologie Alpine, Grenoble. Invited seminar.
- 08/11/22:** Séminaire du laboratoire Equipe de Neuro-Ethologie Sensorielle, Saint-Etienne. Invited seminar.
- 19/10/22:** GDR plasticité phénotypique, en ligne. Invited talk.
- 27/09/2022:** Acoustics Methods Series, Online. Invited seminar.
- 20/09/2022:** Bridging Brains and Bioacoustics seminar, Online. Invited seminar.
- 07/09/2022:** BIOSEFAIR, Lyon, France. Invited seminar.
- 14/08/2022:** ESEB conference, Prague, Czech Republic. Symposium co-host and oral presentation.
- 01/08/2022:** Workshop "Full-stack bioacoustics: field kit to AI to action", Leiden, the Netherlands. Poster presentation.
- 25/05/2022:** OFB seminar series, online. Invited seminar.
- 11/03/2022:** Friday Lab Chat, online. Oral presentation.
- 24/11/2021:** Atelier INSU-INEE CNRS, Bordeaux, France. Invited seminar.
- 15/09/2021:** ESEB satellite meeting on reproductive isolation, online. Oral presentation.
- 14/12/2020:** Festival of Ecology of the British Ecological Society, online. Invited talk.
- 14/11/2020:** American Genetic Association president symposium, online. Invited talk by the president as a "presentation award".
- 05/11/2020:** Tropicon, twitter conference of the conservation ecology group at the British Ecological Society, online. **Twitter presentation**.

- 14/10/2020:** Laboratoire d'Ecologie Fonctionnelle et Environnement, Toulouse, France. Invited seminar.
- 06/03/2020:** Laboratoire d'écologie Alpine, Grenoble, France. Invited seminar.
- 11/02/2020:** Center for Acoustics Research and Education (CARE) spring seminar series, University of New Hampshire, Durham, USA. Invited web-seminar.
- 20/01/2020 :** Centre d'Ecologie Fonctionnelle et Evolutive, Montpellier, France. Invited seminar.
- 05-06/12/2019:** Winter meeting of the Association for the Study of Animal Behaviour, London, UK. Oral presentation.
- 31/08-05/09/11/2019:** International Bioacoustic Congress, Brighton, UK. Invited talk and oral presentation.
- 05-09/11/2018:** Meeting of the Acoustical Society of America, Victoria, Canada. Invited talk.
- 04-06/09/2018:** Biotremology, Riva del Garda, Italy. Oral presentation.
- 02-06/08/2018:** Animal Behaviour Society Meeting, Milwaukee, USA. Oral presentation.
- 20-24/05/2018:** Society for Freshwater Sciences Annual Meeting, Detroit, USA. Symposium co-host and oral presentation.
- 13/02/2018:** Graduate seminar series. Purdue University, West Lafayette, USA. Invited seminar.
- 08-13/10/2017:** International Bioacoustic Congress, Haridwar, India. Oral presentation and poster.
- 23-27/07/2017:** International Congress for Conservation Biology, Cartagena, Colombie. Symposium co-host and oral presentation.
- 12/08/2016:** Seminar series of the Australian River Institute, Griffith University, Brisbane, Australie. Invited seminar.
- 25/03/2016:** Behavioural and molecular ecology club, University of Wisconsin-Milwaukee, Etats-Unis. Invited seminar.
- 09/11/2015:** Seminars of the Atelier de Bioinformatique, Muséum national d'Histoire naturelle, Paris, France. Invited seminar.
- 7-11/09/2015:** International Bioacoustic Congress, Murnau, Allemagne. Oral presentation.
- 29/11/2014:** Journée thématique Fleuves et rivières, Muséum national d'Histoire naturelle, Paris. Invited seminar.
- 16-18/06/2014:** Ecoacoustics, Muséum national d'Histoire naturelle, Paris. Oral presentation.
- 12-14/02/2014:** Young Natural History scientists Meeting, Muséum national d'Histoire naturelle, Paris. Oral presentation.
- 10/08/2013:** Acoustic Communication Summer school, Aarhus University, Denmark. Poster.

Grants

- 01/09/2023:** Postdoctoral Fellowship from Marie Skłodowska-Curie Actions (152 623€).
- 08/06/2023:** AQUASOUND funded by LabeX CEBA (15 000€). Awarded to Jérôme Murienne and I.
- 02/07/2021:** AQUACOSM transnational access (15,000 €).
- 01/03/2021:** Wageningen Environmental Research call for innovative project (25,000 €). Awarded to Gea van der Lee, with Piet Verdonshot and I as collaborators.
- 18/05/2019:** National Geographic Grant NGS-56852R-19 (20,000 \$). Awarded to Simon Linke, with Toby Gifford, Brendan Ebnar, Leah Barclay and I as collaborators.

11/04/2019: NSF 3 year grant - IOS-1855962 (1,141,169 \$). Awarded to Rafael L. Rodríguez and I as co-PIs, with Nathan Bailey as collaborator.

15/06/2016: Post-doctoral fellowship from Fondation Fyssen (50,000 €).

15/05/2016: Grant Jean Walter Zellidja, mobility grant of the French Academy (3500 €).

24/03/2016: Research Growth Initiative (105,922 \$). Awarded to Rafael L. Rodríguez, in collaboration with me.

17/04/2013: Summer school "Acoustic Communication" grant (300 €).

21/03/2013: Grant of the Association des Amis du Muséum (1,475 €).

25/01/2013: Field work grant from LabEx BCDiv (7,160 €). Awarded to Jérôme Sueur, with Sandrine Pavoine, Romain Garrouste and I as collaborators.

Supervising and mentoring activities

- Supervision of **17** undergraduate students, **6** MS students, and **1** postdoctoral researcher
- Mentorship of **2** PhD students, and **2** postdoctoral researchers
- **10** students and **2** postdocs co-authors published articles.

Research expeditions and international secondments

01/09-15/10/2021 : *Fieldwork* – Saint-Pierre-les-Nemours (France). DECOSOUNDS: Acoustic monitoring of organic matter decomposition in response to boat noise (in collaboration with Emilie Rojas and Vincent Médoc).

2019 : *Fieldwork* – Madrid (Spain). Bioacoustic study of wild bees in the Sierra of Madrid (in collaboration with Alberto Rodriguez, Violeta Hevia, and D. Llusia)

20-22/08/2018 : *Fieldwork* – Utrecht (The Netherlands). Acoustic monitoring in ditches along a gradient of anthropogenic stress (in collaboration with G. van der Lee).

11-26/08/2016: *Fieldwork* – Ewamian Aboriginal Corporation, Talaroo (Australia). Assessing the potential of passive acoustic monitoring in freshwater environments: spatio-temporal variability of the soundscape (in collaboration with S. Linke and T. Gifford).

11-17/01/2015: *Labwork* – University of Geneva (Switzerland). Identification of sound-producing insects (supervised by E. Castella).

01-30/09/2011: *Fieldwork* – Nouragues research station (French Guyana). Arthropod collection using the "bark-spraying" method (supervised by J. Schmidl).

Commissions of trust

Scientific reviewer for *The American Naturalist*, *Animal Behaviour*, *Behavioural Ecology*, *Bioacoustics*, *Biodiversity and Conservation*, *Biological Invasions*, *Biology Letters*, *Biota Columbiana*, *Deep Sea Research Part I*, *Diversity*, *Ecological indicators*, *Ecological Informatics*, *Ecology*, *Ecology and Evolution*, *Freshwater Biology*, *Herpetological Conservation and Biology*, *Hydrobiologia*, *Journal of the Royal Society Interface*, *Methods in Ecology and Evolution*, *Peer J*, *Plos One* et *Proceedings of the Royal Society B: Biological Sciences*, *Remote Sensing in Ecology and Conservation* (identifiant publon: [1294815](#)).

Grant reviewer for Agence Nationale de la Recherche (France), Universidad de Antioquia (Columbia), la région Auvergne-Rhône-Alpes (France) and the Natural Sciences and Engineering Research Council of Canada.

PhD jury for Camilo Sánchez Giraldo (Universidad de Antioquia, Colombie, 26/01/2024), Elie Grinfeder (MNHN, Paris, France, 17/10/2024), and Théophile Turco (Université Jean Monnet, Saint Etienne, France, 05/11/2024)

Guest editor for *Freshwater Biology* (01/01/2017-31/12/2019).

Associate editor for *Methods in Ecology and Evolution* (01/10/2020-present).

Outreach programs and art-science collaborations

- 27/01/2024:** **Natures sonores** listening to the Rhône, talk title: 'The sound of the Lônes: ecoacoustic exploration of Rhône's secondary channels'. Invited seminar with the artist Julie Rousse.
- 08/10/2021:** Interactive seminar to high school students for the "**fête de la science**" on animal sound producers in freshwater. CEREEP, Saint-Pierre-lès-Nemours (France).
- 03/10/2020:** Project for the **nuit blanche** in Paris. I am providing underwater recordings to Pierre Lanchantin and Maxime Rossi to present an evolving soundtrack – Paris (France).
- 20-21/01/2020:** Interactive seminar to high school students for the "semaine des sciences" on animal sound producers in freshwater. Lycée Feuillade, Montpellier (France).
- 08/06-17/08/2019:** Exhibition of a piece called **The Secret Sound of Ponds** in collaboration with Benjamin Gottesman and David Rothenberg as part of the **Depth** exhibition – Science Gallery, Detroit (USA).
- 12/10/2018:** Performance of a piece by Marcelo Bonvicino at an Electroacoustic concert **Arts, écologies, transitions** using my underwater recordings – Université Paris 8, Paris (France).