

Elliot Dreujou



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Science interests

Marine ecology, marine biology, coastal ecosystems, benthos, infauna, epifauna, macroalgae, theory, field sampling, statistics, GIS

Academic training

PhD. candidate in Oceanography

Institut des Sciences de la Mer, Université du Québec à Rimouski, Rimouski (2015 – present)

MSc. Environmental Sciences and Marine Ecology

Université Pierre et Marie Curie, Paris (2013 – 2015)

BSc. Life Sciences

Université Pierre et Marie Curie, Paris (2010 – 2013)

Research internships

Calculation of cumulative impact scores for benthic communities at the local scale

University of Victoria, Victoria (2 weeks, 2019)

Application of the M-AMBI index in the region of Sept-Îles, QC

Institut Français de Recherche pour l'Exploitation de la Mer (IFREMER), Dinard (2 months, 2018)

Detection of invasive species in Arctic Canadian harbors

Institut des Sciences de la Mer, Université du Québec à Rimouski, Rimouski (5 months, 2015)

Operator bias in video transects to assess Antarctic benthic communities

French National Natural Museum, Concarneau (2 months, 2014)

Workshops and formations

Geospatial analyses

Canadian Healthy Oceans Network Workshop (2018)

Bayesian statistics for ecologists

Université de Sherbrooke (2017)

Cartography and GIS

Data management

Biology department, Université Laval (2017)

Advanced applications of R

R à Québec workshops (2016 and 2019)

Introduction to environmental indicators

Canadian Healthy Oceans Network Workshop (2016)

Ecology, taxonomy and identification of coastal marine flora in Bretagne

Roscoff Marine Station, Université Pierre et Marie Curie (2015)

Scientific communication

Banyuls Oceanographic Observatory, Université Pierre et Marie Curie (2014)

Multivariate analyses applied to ecology

Villefranche-sur-Mer Oceanographic Observatory, Université Pierre et Marie Curie (2014)

Ecology, taxonomy and identification of coastal marine fauna in Bretagne

Roscoff Marine Station, Université Pierre et Marie Curie (2013)

Scholarships and awards

PhD. scholarship

Natural Sciences and Engineering Research Council of Canada (90,500 \$CA)

PhD. scholarship

Institut des Sciences de la Mer, Université du Québec à Rimouski (11,700 \$CA)

International inter-laboratory exchange funding

International Mixed Unit CNRS/UL Takuvik (2,000 \$CA)

Réseau Québec Maritime, Fonds de Recherche du Québec Nature et Technologies (5,000 \$CA)

Québec-Océan (1,500 \$CA)

Canadian inter-laboratory exchange funding

Canadian Healthy Oceans Network (1,500 \$CA)

Université du Québec à Rimouski (750 \$CA)

Best Scientific Poster

Canadian Healthy Oceans Network

Distinction for the implication in the organization of a student symposium

Fondation de l'Université du Québec à Rimouski

Professional experience

Teaching assistant for R language courses

Quebec Center for Biodiversity Science (4 months, 2018)

Deputy director of scientific summer camps

Telligo Enterprise (2013-2014)

Science animator of scientific summer camps

Telligo Enterprise (2009-2013)

Associative experience

Elected representative for 3rd cycle students

Elected representative for internal communications

Québec-Océan Student Committee (2017 – present)

Treasurer and coordinator

Université du Québec à Rimouski Student Group for Science Vulgarization (2016)

Elected coordinator

Canadian Healthy Oceans Network Student Committee (2015 – present)

Skills

► Computing

Languages: R, Markdown, SQL, Python, HTML5, CSS

Software: Atom, PRIMER-e, ArcGIS, SciLab, Git, Microsoft Office Suite, Affinity Suite

Interfaces: MacOS, Windows, iOS, Unix

► Certifications

Emergency oxygen delivery (2017)

First-aid (2017)

CMAS 1-star dive (2015)

European Level B2+/C1 in English (2014)

► Other skills

Experience in field ecology and sampling designs

Expertise in infauna, epifauna and macroalgae species identification

Experience in laboratory activities

Expertise in statistical analyses and programs

Experience in peer-reviewed publication

Management of teams and students

Publications

► Peer-reviewed articles

Dreujou E, Archambault P, McKindsey C, Grant C, Tréau de Coeli L (in prep). Studying the state of benthic communities in industrial coastal areas. *Frontiers in Marine Science*

Dreujou E, Carrier-Belleau C, Fiorentino D, Ben-Hamadou R, Said H, Muelbert JH, Godbold JA, Goldsmit J, Daigle RM, Beauchesne D (in review). Holistic environmental assessments as a tool to reach the Aichi Biodiversity Targets. *PeerJ*

► Book chapters (1)

Dreujou E, Paquette L, Grant C, Archambault P (2018). Chapitre 5 : Caractérisation de la faune benthique. In: Carrière J (éd), *Observatoire environnemental de la Baie de Sept-Îles*, 1011 p.

► Conference presentations (4)

Dreujou E, McKindsey C, Grant C, Tréau de Coeli L, Archambault P (2019). État des écosystèmes benthiques dans la baie de Sept-Îles. *1st International Congress on Industrial Harbour Scientific Research*, Sept-Îles (Canada), May 28-30. [Invited speaker]

Dreujou E, Archambault P, McKindsey C (2018). Benthic communities and human activities: a peaceful cohabitation? *4th World Conference on Marine Biodiversity*, Montréal (Canada), May 13-16.

Dreujou E, Archambault P, McKindsey C (2017). Communautés benthiques de Sept-Îles et activités humaines de la région : une cohabitation harmonieuse ? *Québec-Océan Scientific Meeting*, Rivière-du-Loup (Canada), November 13-15.

Dreujou E, Archambault P, McKindsey C (2017). Caractérisation des écosystèmes intertidaux autour de Sept-Îles. *Université Laval Biology Department Symposium*, Québec (Canada), March 28-29.

► Scientific posters (6)

Dreujou E, Archambault P, McKindsey C, Desroy N, Foveau A (2018). Linking anthropogenic activities and benthic communities in industrial and harbor areas: what is the state of the ecosystems? *Canadian Healthy Oceans Network Meeting*, Ottawa (Canada), November 29-December 3. [Best scientific poster]

Dreujou E, Archambault P, McKindsey C, Desroy N, Foveau A (2018). Relier les activités humaines et les communautés benthiques en zone industrielle-portuaire : quel est l'état des écosystèmes ? *Québec-Océan Scientific Meeting*, Rivière-du-Loup (Canada), November 5-6.

Dreujou E, Archambault P, McKindsey C (2017). Individual and cumulative impacts of anthropogenic stressors on coastal ecosystems: the case of Sept-Îles, QC. *Canadian Healthy Oceans Network Meeting*, Gatineau (Canada), May 1-5.

Dreujou E, Archambault P, McKindsey C (2016). Étude des impacts individuels et cumulés de stressors anthropiques sur les écosystèmes de la région de Sept-Îles. *Québec-Océan Scientific Meeting*, Québec (Canada), November 8-9.

Dreujou E, Goldsmit J (2015). Analyse des coûts et bénéfices de deux techniques d'échantillonnage utilisées pour étudier les communautés benthiques arctiques. *Québec-Océan Scientific Meeting*, Québec (Canada), November 10-11.

Goldsmit J, Howland K, Dreujou E, Chust G, Villarino E, Liu G, Lukovich J, Barber D, Archambault, P (2015). L'Arctique canadien en voie d'être envahi ? *ACFAS Symposium*, Rimouski (Canada), May 25-29.

► **Other contributions**

Dreujou E, Daigle R, Cazelles K (2019). R as a ruler? How to calculate distances between geographical objects. *Blog post*, available at <https://insileco.github.io/> (accessed April 26 2019).

Gélineau J (2018). Observatoire de la Baie de Sept-Îles. *Television show broadcasted on Noustv Côte-Nord*, February 11.

Vidard M, Ballet V, Sarfaty L, Perrin AC (2015). Au bord du Saint-Laurent : écologie du fleuve, acidification, protection des écosystèmes. *Radio show broadcasted on France Inter*, May 27.