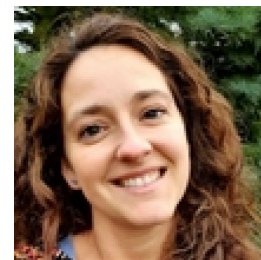


Paula Canal-Vergés
Department of Biology
Email: canal@biology.sdu.dk
Phone: 65502715
Mobile: 26606275



Basic studies:

- 2009-2012, PhD, at the biology Institute of The University of Southern Denmark and DHI, within the EU project "Key parameters and processes affecting the re-establishment of eelgrass in estuaries and coastal waters".
- 2007-2008, DEA (Research sufficiency) in the program "Biology applied to the sustainability of natural resources" at Oviedo University (Asturias, Spain).
- 2001-2006, Licensed in biology by Navarra University (Spain)
Last year of degree coursed at the University of southern Denmark, (Odense, Denmark), due to an Erasmus grant.

Other relevant courses:

- 2018-2019, Diverse GIS webinars on eCognition and other advance GIS tools (Trimble, online)
- 2016, Best practice for supervisors of PhD students (DTU Aqua, Lyngby, Denmark).
- 2015, ArcGIS "Essential workflows and performing analyses" (Informi GIS, Denmark).
- 2013, Professional media training in communication of science (Maitre, Denmark).
- 2007-2008, Course "Environment management in Europe", online course of 15 ECTS (LIFE institute, Copenhagen University).
- 2007, Certificate of pedagogical aptitude. Oviedo University, Oviedo, Spain.
- 2005, Course on aquaculture management, 45 hours (Oviedo University)
- 2002, Course on rivers pollution, 10 hours (Navarra Universidad)

Job experience:

- 2021- Associated professor at the University of Southern Denmark
- 2020-2021, Postdoc at the University of Southern Denmark
- 2017-2020, Consultant and project leader at COWI A/S (Lyngby) Denmark.
- 2014-2017 Research at Technical University of Denmark, Denmark.
- 2012-2014 Researcher at Danish shellfish center, Danmark.
- 2012 Teacher of Mathematical Environmental Modelling. University of Southern Denmark.
- 2009-2012, PhD employee (DHI-SDU).
- 2010-2011, Teacher of GIS (Mapinfo), at Master-PhD level. University of Southern Denmark.
- 2009, Teacher of Mathematical Environmental Modelling and GIS (Mapinfo) at Master-PhD level. University of Southern Denmark.
- 2008, Research assistant at the University of Southern Denmark, for the Danish consulting company Rambøll (7 months). Environmental impact investigation of the new tunnel/bridge across Roskilde fjord.
- 2001, Campaign work on the Arga river restoration, Pamplona, Navarra, (Spain)

Skills:

- Localization and geographical programs: GIS, Mapinfo, ArcGIS, Q-GIS
- Ecological/hydrological modeling: Powersim, Mike (DHI), Cormix.
- Statistic analysis: Sigmastat, SigmaPlot, Sistas.
- Environmental management: Natura 2000, water frame directive, habitat directive.
- Terrestrial and aquatic ecology, botany and zoology.
- Diving certificate one star (FEDAS = CEMAS), Orca club
- Driver license class b.

Languages:

- Native language, Spanish
- Written and spoken English, high.
- Written and spoken Danish, medium (module 4).
- Written and spoken French, medium

Research outputs

Genopretning af marin biodiversitet og bæredygtig anvendelse af havets resurser: Ekspertudtalelse

Bendtsen, J., Canal-Vergés, P., Dinesen, L., Hansen, J. L. S., Holmer, M., Kaiser, B., Lisbjerg, D., MacKenzie, B. R., Markager, S., Nissen, T., Petersen, I. K., Petersen, J. K., Richardson, K., Roth, E., Støttrup, J. G., Stæhr, P. A., Svendsen, J. C., Sørensen, T. K., Wisz, M. S. & Bendtsen, J., May 2021, IPBES. 30 p.

Marine virkemidler: Potentialer og barrierer

Petersen, J. K., Timmermann, K., Bruhn, A., Rasmussen, M. B., Boderskov, T., Erichsen, A., Thomsen, M., Holbach, A. M., Tjørnløv, R. S., Lange, T., Canal-Vergés, P. & Flindt, M., May 2021, Technical University of Denmark (DTU). 62 p. (DTU-Aqua-rapport).

Hotspotanalyse og indsatsplan for spøgelsesnet og efterladt fangst- og jagtudstyr i Grønland

Canal-Vergés, P. & Raben-Levetzau, J., 2021

Marine application of the Danish EPA's Marine Model Complex and Development of a Method Applicable for the River Basin Management Plans 2021-2027. Improved growth conditions in selected estuaries based on 30% reductions in land based nutrient loads.

Canal-Vergés, P., Erichsen, A., Keller Lee, M., Timmermann, K. & Flindt, M., 2021

Near field spreading of medical components in kilsfjorden, Norway

Canal-Vergés, P. & Jürgensen, C., 2021

Environmental baseline mapping and impact screening of the North Sea Wind Power Hub (NSWPH) project

Canal-Vergés, P. & Hjorth, M., 2019

Marine beskyttede områder i Danmarks nabolande

Canal-Vergés, P., Riisgaard, K. & Raben-Levetzau, J., 2019

-Nedlægning af stokkebro, vejby, tisvilde, dronningmølle, smidstrup, udsholt og græsted renseanlæg og samlet rensning af spildevandet på gilleleje renseanlæg

Canal-Vergés, P. & Jürgensen, C., 2019

Co-use of offshore wind farms

Canal-Vergés, P. & Raben-Levetzau, J., 2018

Finscreening af havarealer til etablering af nye havmølleparker Miljøscreening

Canal-Vergés, P., Poulsen, E. & Hjorth, M., 2018

GIS tools for the evaluation of eelgrass status in Horsens and Lillebælt

Canal-Vergés, P. & Hjorth, M., 2018

Konsekvenser af klimaforandringer for den danske havplan

Canal-Vergés, P. & Hjorth, M., 2018

Nabotjek af EU-landes fremgangsmåder ved planlægning for marine vandområder i henhold til vandrammedirektivet

B, R., Canal-Vergés, P., Raben-Levetzau, J., Hjorth, M., Bo, D., LC, W. & MM, S., 2018

Udvidede beregninger for cyanid i Kvinesdal of Porsgrunn fjords Norge

Canal-Vergés, P. & Jürgensen, C., 2017

Blue carbon stocks in Baltic Sea eelgrass (*Zostera marina*) meadows

Röhr, E., Boström, C., Canal-Vergés, P. & Holmer, M., 2016, In: Biogeosciences. 13, 22, p. 6139-6153

Impact of environmental conditions on biomass yield, quality, and bio-mitigation capacity of *Saccharina latissima*

Bruhn, A., Tørring, D. B., Thomsen, M., Canal-Vergés, P., Nielsen, M. M., Rasmussen, M. B., Eybye, K. L., Larsen, M. M., Balsby, T. J. S. & Petersen, J. K., 2016, In: *Aquaculture Environment Interactions*. 8, p. 619-636

Modelling stressors on the eelgrass recovery process in two Danish estuaries

Kuusemäe, K., Kock Rasmussen, E., Canal-Vergés, P. & Flindt, M., 2016, In: *Ecological Modelling*. 333, p. 11-42

Using a GIS-tool to evaluate potential eelgrass reestablishment in estuaries

Flindt, M., Rasmussen, E. K., Valdemarsen, T. B., Erichsen, A., Kaas, H. & Canal Vergés, P., 2016, In: *Ecological Modelling*. 338, p. 122-134

Validating GIS tool to assess eelgrass potential recovery in the Limfjorden (Denmark)

Canal-Vergés, P., Petersen, J. K., Rasmussen, E. K., Erichsen, A. L. & Flindt, M., 2016, In: *Ecological Modelling*. 338, p. 135-148

Effekter af blåmuslingefiskeri på bundfauna

Dinesen, G. E., Canal-Vergés, P. & Petersen, J. K., 2015

Faglig understøttelse af nye forvaltningsprincipper for muslingeskeri

Canal-Vergés, P. & Petersen, J. K., 2015

Eelgrass re-establishment in shallow estuaries is affected by drifting macroalgae: Evaluated by agent-based modeling

Canal-Vergés, P., Potthoff, M., Hansen, F. T., Holmboe, N., Rasmussen, E. K. & Flindt, M. R., 2014, In: *Ecological Modelling*. 272, p. 116-128 13 p.

Estimering af bestande af blåmuslinger. Test af nye metoder og modeller

Petersen, J. K., Thygesen, U. H., Saurel, C., Canal-Vergés, P., aqua, D., aqua, D. & Geitner, K., 2014

A tale of two fjords – en analyse af bundfauna samfund i Odense og Roskilde Fjord

Banta, G. T., Delefosse, M., Canal Vergés, P., Flindt, M. & Kristensen, E., 2013. 1 p.

Macrobenthic community response to the *Marenzelleria viridis* (Polychaeta) invasion of a Danish estuary

Delefosse, M., Banta, G., Canal Vergés, P., Penha-Lopes, G., Quintana, C. O., Valdemarsen, T. B. & Kristensen, E., 8. Aug 2012, In: *Marine Ecology - Progress Series*. 461, p. 83-94

Key parameters and processes affecting the re-establishment of eelgrass in estuaries and coastal water

Canal Vergés, P., 2012, Syddansk Universitet. Det Naturvidenskabelige Fakultet. 159 p.

Effects of Drifting Macroalgae in Eelgrass Ecosystems: A Case Study from Odense Fjord

Canal Vergés, P., Valdemarsen, T. B., Kristensen, E. & Flindt, M., Nov 2010.

Resuspension created by bedload transport of macroalgae: implications for ecosystem functioning

Canal Vergés, P., Vedel, M., Valdemarsen, T. B., Kristensen, E. & Flindt, M., 2010, In: *Hydrobiologia*. 649, p. 69-76

Vulnerability of *Zostera marina* seedlings to physical stress

Valdemarsen, T. B., Canal Vergés, P., Kristensen, E., Holmer, M., Kristiansen, M. D. & Flindt, M., 2010, In: *Marine Ecology - Progress Series*. 418, p. 119-130 12 p.

Modelling the effects of drifting macroalgae in coastal waters

Canal Vergés, P., Jørgensen, C. & Flindt, M., Dec 2009.

Resuspension created by bedload transport of macroalgae

Canal Vergés, P., Kristensen, E. & Flindt, M., Feb 2009.

Physical processes affecting survival of eelgrass (*Zostera marina* L.) seedlings in a Danish Fjord: Macroalgae drift, sediment reworking and resuspension

Valdemarsen, T. B., Canal Vergés, P., Kristiansen, M. D., Kristensen, E., Holmer, M. & Flindt, M., 2009.

Key commissioned reports for the Danish environmental Ministry

-Application of the Danish EPA's Marine Model Complex and Development of a Method Applicable for the River Basin Management Plans 2021-2027. Improved growth conditions in selected estuaries based on 30% reductions in land based nutrient loads. 2021, Canal-Vergés, P, Lee, KM, Erichsen, AC, Timmermann, K, Flindt, RF. Marine

-Virkemiddel Potentialer og Barrierer. 2021 Petersen, J. K., Timmermann, K., Bruhn, A., Rasmussen, M. B., Boderskov, T., Schou, H. J., Erichsen, A. C., Thomsen, M., Holbach, A., Tjørnløv, R. S., Lange, T., Canal-Vergés, P., & Flindt, M. R. 2020. DTU Aqua-rapport Nr. 385-2021 <https://www.aqua.dtu.dk/-/media/Institutter/Aqua/Publikationer/Rapporter-352-400/385-2021-Marine-virkemidler-potentialer-ogbarrierer.ashx>.

-Marine beskyttede områder i Danmarks nabolande. 2019. Hjorth, M, Canal-Vergés, P, Risgård, K, Raben-Levetzau, J., COWI report A116976.

-Konsekvenser af klimaforandringer for den danske havplan. 2018. Raben-Levetzau, J, Hjorth, M, Canal-Vergés, P COWI report A10690.

-Nabotjek af EU-landes fremgangsmåder ved planlægning for marine vandområder i henhold til vandrammedirektivet. Komparativ rapport. 2018. Rafaelse, B, Damsted B, Raben-Levetzau, J, Pederse Ks, Whähler LC, Sørensen MM, Hjorth, M Canal-Vergés, P. COWI report A092975.

-GIS tools for the evaluation of eelgrass status in Horsens and Lillebælt. 2018. Canal-Vergés, P, & Hjoth, M, 2018. COWI report A095517.

Other Key reports

- Environmental baseline mapping and impact screening of the North Sea Wind Power Hub (NSWPH) project. 2019. Hjorth, M, & Canal-Vergés, P, Desktop study. Energinet report.

-Hotspotanalyse og indsatsplan for spøgelsesnet og efterladt fangst- og jagtudstyr i Grønland. 2019. Canal-Vergés, P, Risgård, K, Raben-Levetzau, Glasgaard, MK, J, . COWI report A126739.

-Co-use of offshore wind farms. 2018. Canal-Vergés, P, Raben-Levetzau, J, . COWI report A105019.

-Impactsof climate change on marine spatial plans of Swedish marine waters. 2018. Canal-Vergés, P, Horth, M, COWI report A105517.

-Finscreening af havarealer til etablering af nye havmølleparker Miljøscreening. 2018. Hjorth, M, Povlsen, E, Canal-Vergés, P, .COWI report A114354.

-Nedlægning af stokkebro, vejby, tisvilde, dronningmølle, smidstrup, udsholt og græsted renseanlæg og samlet rensning af spildevandet på gilleleje renseanlæg. 2019 Jurgersen C, Canal-Vergés, P, Pradhan S, 2019. Modellering af udledninger til kattegat Teknisk rapport vedr. COWI report. A111864.

-Near field spreading of medical components in kilsfjorden, Norway. 2018. Canal-Vergés, P, Jürgersen, C, 2018. COWI report A092441.

-Udvidede beregninger for cyanid i Kvinesdal of Porsgrunn fjords Norge. 2017 Jürgersen C, Canal-Vergés, P, 2017. COWI report A097776.

-Faglig understøttelse af nye forvaltningsprincipper for muslingeskeri. 2015. Canal-Vergés, P, Petersen, JK. DTU Aqua-rapport nr.304-2015.

-Effekter af blåmuslingefiskeri på bundfauna, 2015. Dinesen, GE, Canal-Vergés, P, Pernille N, Kristian, F, Kerstin, G, Petersenm JK, 2015 DTU Aqua-rapport nr. 305-2015.5.

- De Lokale Dyder: Udvikling af muslingeørhvervet i Limfjorden, 2014. Petersen, JK, Tørring, DB, Nielsen, CF, Gommesen, M, Saurel, C, Fitridge, I, Canal-Vergés, P & Nielsen, P. Institut for Akvatiske Ressourcer, Danmarks Tekniske Universitet.

- Konsekvensvurdering af fiskeri på blåmuslinger og søstjerner i Lovns Bredning 2014/2015. Canal-Vergés, P, Nielsen, P, Nielsen, CF, Geitner, K & Petersen, JK, DTU Aqua-rapport, no. 284-2014, Danmarks Tekniske Universitet, Institut for Akvatiske Ressourcer - Dansk Skaldyrcenter, Charlottenlund.

-Konsekvensvurdering af fiskeri på blåmuslinger og søstjerner i Løgstør Bredning 2014/2015. Nielsen, P, Canal-Vergés, P, Geitner, K, Nielsen, CF & Petersen, JK 2014, DTU Aqua-rapport, no. 285-2014, Danmarks Tekniske Universitet, Institut for Akvatiske Ressourcer - Dansk Skaldyrcenter, Charlottenlund.

-Estimering af bestande af blåmuslinger. Test af nye metoder og modeller 2014. Petersen JP, Høgsbro U, Saurel, C, Stage, B, Nielsen, P, Canal-Vergés, P, Kristensen, K, Brida, J, Pedersen EV, Geitner, K, Nielsel, CF.

-Documented effects of mussel dredging on eelgrass populations-A review. 2013 Canal-Vergés, P, Flindt MR., Holmer M., Petersen JK.