27.06.2023

Jonas Palder

Fisheries biologist with an engineering background

Contact

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Research interests

River- and fish ecology
Ecosystem restoration
Fish migration
Connectivity of aquatic habitat

EDUCATION

M.Sc. Eng. Aquatic Science and Technology with specialization in Fisheries
Technical University of Denmark DTU
September 2020 to November 2022

Study focus on aquatic ecosystems and their management, fisheries ecology and stock assessment, statistical and mathematical modelling, fish biology and sustainable aquaculture, fish capture technology

Master thesis: “Development and gear trial of a bycatch reduction device aiming to exclusively reduce catches of cod (*Gadus morhua*) in a mixed species demersal trawl fishery”. Supervised by Dr. Valentina Melli and Dr. Jordan P. Feekings.

Study project: “Fish trapped between hyperthermia and anoxia in a marine protected area: Implications of a marine heatwave”. Supervised by Dr. Jon C. Svendsen.

Study project: “Effects of catch and release on pike (*Esox lucius*)”. Supervised by Prof. Dr. Christian Skov.

Grade 11.6 (-3 – 12 Scale), ECTS A

B.Sc. Business and Technical Engineering
University of Rostock
October 2016 to September 2019

Foundation study including mathematics, technical engineering, materials science and core management skills

Bachelor thesis: “Conceptual design of a bench test to determine the influence of seawater and sediment on corrosion protection systems on offshore foundation structures”. Supervised by Dr. Michael Irmer.

Grade 1.7 (1 – 5 Scale), ECTS A

RESEARCH EXPERIENCE

Leibniz Institute of Freshwater Ecology and Inland Fisheries (IGB), Berlin (PI: Prof. Dr. Robert Arlinghaus)
January 2023 to June 2023

Researcher (fixed-term) in the Research Group for Integrative Recreational Fisheries Management at the Department of Fish Biology, Fisheries and Aquaculture. Project BODDENHECHT: Ecology, exploitation and protection of pike in the coastal waters of Mecklenburg-Vorpommern. www.boddenhecht-forschung.de

- Statistical analysis of fish community, body condition and reproductive allometry
- Statistical comparison of fish population size structure and fishing gear selectivity
- Coordination of fish sampling and environmental data collection
- Dissemination of research results to stakeholders

National Institute of Aquatic Resources (DTU Aqua), Denmark
2021 to 2022

Student assistant in multiple research sections:

- **Section for Fisheries Technology, Hirtshals** (PI: Dr. Jordan Feekings)
  April 2022 to September 2023
  On-board assistant on scientific cruises, collection of trawl selectivity data for marine crustacean- and fish species in Danish Skagerrak and Kattegat.

- **Section for Ecosystem based Marine Management, Kgs. Lyngby** (PI: Dr. Elliot J. Brown)
  October 2021 to February 2022
  Laboratory work on finray counts and species identification of juvenile flatfish.

- **Section for Freshwater Fisheries Ecology, Silkeborg** (PI: Prof. Dr. Christian Skov)
  September 2021
  Catch & recapture study during a whole-lake biomanipulation experiment, assistance during acoustic- and PIT tagging of roach, perch and pike.

- **Section for Coastal Ecology, Kgs. Lyngby/Nykøbing Mors** (PI: Dr. Jon C. Svendsen)
  March 2021 to August 2021
  Acoustic telemetry (seatrout, turbot, lobsters), data management.

Fraunhofer Institute for Large Structures in Production Engineering (IGP), Rostock (PI: Dr. Michael Irmer)
December 2018 to September 2019

Student assistant in the field of corrosion protection and artificial ageing.

PUBLICATIONS

Palder, O. J., Feekings, J. P., Fraser, S., & Melli, V. (2023). Approaching single-species exclusion in mixed demersal trawl fisheries. *Ocean and Coastal Management*, *242*, [106672]. https://doi.org/10.1016/j.ocecoaman.2023.106672

Larsen, M.H., Palder, O.J., Gundelund, C., Schnedler-Meyer, N.A., Ravn, H., Skov, C. Anatomical hooking location and bleeding occurrence in northern pike (*Esox lucius*) caught in recreational catch-and-release angling in a lake with reduced prey availability. *Submitted to Fisheries Research* (2nd revision)

Arlinghaus, R., Braun, M., Dhellemmes, F., Ehrlich, E., Feldhege, F., Koemle, D., Niessner, D., Palder, J., Radinger, Riepe, C., Roser, P., Rittweg, T., Winkler, H.: BODDENHECHT - Ökologie, Nutzung und Schutz von Hechten in den Küstengewässern Mecklenburg-Vorpommerns. *Undergoing completion*

Frausing, M.H., Palder, O.J., Hauge, F.H., Kristensen, M.L., Aarestrup, K., Payne, M., Herastrau, M.P., Svendsen, J. C. (2022). Hedebølge og iltsvind er en farlig cocktail for havørred. DTU Aqua.

Frausing, M.H., Hauge, F., Wilms, T., Christoffersen, M.O., Palder, O.J., Christensen, M.L., Aarestrup, K., & Svendsen, J.C. (2021). Kortlægning af fiskenes vandringer i Roskilde Fjord. DTU Aqua.

CONFERENCES AND SEMINARS

Fish Passage 2021 (World Fish Migration Foundation, online, 21. – 24.06.2021)

CPUE standardization in R for fisheries biologists and practitioners (online workshop, 23. – 24.11.2022, https://fishsizeproject.github.io/CPUEcourse/)

Involving People in Conservation – The Role of Human Dimensions (led by Prof. Dr. Alistair J. Bath at Leibniz IGB, Berlin, 05. – 06.06.2023)

SKILLS AND QUALIFICATIONS

Software and Programs

R – advanced, statistics
QGIS – intermediate
PTC Creo (CAD) – intermediate
SELNET (size SELection in trawl NETing) – intermediate
C++ – novice
Matlab – novice

Languages

German, mother tongue
English, fluent
Danish, conversational
Spanish, intermediate, A2
Latin, intermediate Latin certificate
French, novice, A1

Other

International Driver´s License (B)
International Certificate for Operators of Pleasure Craft
Operation license for electrofishing (completion by 14.07.2023)
SSI Open Water Diver (Scuba)

REFERENCES

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12587 Berlin, Germany
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8600 Silkeborg, Denmark
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