

Jens Tang Christensen

Personal: Born 18 Aug.1952. Married, two children (40 and 38 years).

Present occupation: Emeritus at Dept. of Bioscience, Aarhus University and at Natural History Museum, Aarhus, Denmark. Owner of Wanyama.dk (Consultant on biodiversity).

Former permanent positions

Laboratory Manager, Department of Bioscience, Marine Ecology, Aarhus University (1992-2017).

Biologist, the Freshwater Centre, Silkeborg (1991-1992).

Curator, Givskud Zoo (1984-1990).

Project Ecologist, DANIDA, Tanzania. Denmark –Tanzania Rodent Control Project (1982-1984).

Research Fellow, Institute of Zoology and Zoophysiology (1979-1981).

Other employments

Lecturer in Ecological Modelling (M.Sc.-programme in Integrated Coastal Zone Management, Aarhus University) (2005).

1992-2003 Teacher and supervisor at the International M.Sc. programme in Marine Sciences, Aarhus University (1992-2003).

Consultant to DANIDA on Wildlife Conservation Education in the SADCC Region (1990).

Consultant to DANIDA: Team Leader of project review mission to Tanzania (1988).

Part-time teacher, Kolding Technical College (1985-1988).

Consultant to DANIDA. Denmark-Tanzania Rodent Control Project (1985).

Degrees

Ph.D. Aarhus University, 1995.

M.Sc. (cand. scient.) Aarhus University, 1978.

Supervision

2 Ph.D.

38 M.Sc. candidates

Major Research Cruises

HDMS Vædderen, August 2006-April 2007: Galathea 3 around the world. August 2008: R/V Dana, North Atlantic. R/V Aurora: August 2014 and April 2016. R/V Dana, North Sea and Skagerrak. July 2016.

Reviewer for: Marine Ecology Progress Series; Journal of Plankton Research; Journal of Sea Research; Continental Shelf Research; Journal of Marine Systems; Frontiers in Marine Science; Science of the Total Environment; Journal of the Marine Biological Association of the United Kingdom; American Naturalist, and PlosONE.

Publications (peer reviewed)

- Hylleberg, J. and Christensen, J.T. 1977. Phenotypic variation and fitness of periwinkles (Gastropoda: Littorinidae) in relation to exposure. *J. moll. Stud.*, **43**: 192-199.
- Hylleberg, J. and Christensen, J.T. 1978. Factors affecting the intra-specific competition and size distribution of the periwinkle *Littorina littorea* (L.). *Natura Jutlandica*, **20**: 193-202.
- Christensen, J.T. 1978. Habitat selection of *Microtus* at the Tipperne peninsula. *Natura Jutlandica*, **20**: 163-172.
- Christensen, J.T. 1981. Avian predation on a population of the water vole (*Arvicola terrestris* (L.)) during a seasonal cycle. *Natura Jutlandica*, **19**: 61-66.
- Christensen, J.T. 1987. A new record of *Beamys* from Tanzania. *J. Mamm.*, **68**: 858.
- Jørgensen, J.M. and Christensen, J.T. 1989. The inner ear of the common rhea (*Rhea americana* (L.)). *Brain Behav. Evol.*, **34**: 273-280.
- Christensen, J.T. 1993. The seasonal variation in breeding and growth of *Mastomys natalensis* (Rodentia: Muridae): evidence for resource limitation. *Afr. J. Ecol.*, **31**: 1-9.
- Christensen, J.T. 1994. Growth and growth studies. *Phuket mar. biol. Cent. Spec. Publ.*, **13**: 201-204.
- Christensen, J.T. 1995. Size dependent resistance to wave action in the intertidal gastropod *Littorina littorea* (L.). *Phuket mar. biol. Cent. Spec. Publ.*, **15**: 155-159.
- Christensen, J.T. 1996. Home range and abundance of *Mastomys natalensis* (Smith, 1834) in habitats affected by cultivation. *Afr. J. Ecol.*, **34**: 298-311.
- Christensen, J.T. 1998. Diet in *Littoraria*. *Hydrobiologia*, **378**: 235-236.
- Jensen, P.D., Christensen, J.T. & Macintosh, D.J. 1999. Growth and survival in the mangrove snail *Littoraria intermedia* (Philippi, 1846). *Phuket mar. biol. Cent. Spec. Publ.*, **19**: 69-73.
- Christensen, J. T., Sauriau, P.-G., Richard, P. & Jensen, P.D. 2001. Diet in mangrove snails: preliminary data on gut contents and stable isotope analysis. *J. Shellfish Res.*, **20**: 423-426.
- Pecseli, M., Pritzl, G., Thomsen, M., Asmund, G. & Christensen, J.T. 2002. Polycyclic aromatic compounds in the Greenland marine environment. *Polycyclic Aromatic Compounds*, **22**: 689-702.
- Gollasch, S., MacDonald, E., Belson, S., Botnen, H., Christensen, J.T., Hamer, J.P., Houvenaghel, G., Jelmert, A., Lucas, I., Masson, D., McCollin, T., Olenin, S., Persson, A., Wallentinus, I., Wetsteyn, L.P.M.J., Wittling, T. 2002. Life in ballast tanks, pp. 217-231 *in*: Leppäkoski, E. *et al.* 2002). *Invasive aquatic species of Europe: distribution, impacts and management*. Kluwer Academic Publishers, Dordrecht, 583 pp.

- Christensen, J. T., Cedhagen, T. & Hylleberg, J. 2004. Late-Holocene salinity changes in Limfjorden, Denmark. *Sarsia* **89**: 379-387.
- Ramsgaard, N. R. & Christensen, J. T., 2006. Bisamrotten (*Ondatra zibethicus*) i Danmark: Status 2005. *Flora og Fauna* **112**: 20-24.
- Christensen, J. T. & Richardson, K. 2008. Stable isotope evidence of long-term changes in the North Sea food web structure. *Mar. Ecol. Prog. Ser.* **368**:1-8
- Bucholtz, R. H., Meilvang, A. S., Cedhagen, T., Christensen, J. T. & Macintosh, D. J. 2009. Biological observations on the Mudskipper *Pseudapocryptes elongatus* in the Mekong Delta, Vietnam. *Journal of the World Aquaculture Society* **40**: 711-723.
- Elmeros, M., Winbladh J. K., Andersen, P.N., Madsen, A. B. & Christensen, J. T. 2011. Effectiveness of odour repellents on red deer (*Cervus elaphus*) and roe deer (*Capreolus capreolus*): a field test. *Eur. J. Wildl. Res.* **57**: 1223-1226. Online First™, 28 February 2011. DOI: 10.1007/s10344-011-0517-y
- Eliassen, K., Reinert, J., Gaard, E., Hansen, B., Jacobsen, J. A., Grønkjær, P., Christensen, J. T. 2011. Sandeel as a link between primary production and higher trophic levels on the Faroe shelf. *Marine Ecology Progress Series*, **438**: 185-194.
- Ankjærø, T., Christensen, J.T. & Grønkjær, P. 2012. Tissue-specific turnover rates and trophic enrichment of stable N and C isotopes in juvenile Atlantic cod *Gadus morhua* fed three different diets. *Marine Ecology Progress Series*, **461**: 197-209.
- Hansen, J.H., Hedeholm, R.B., Sünksen, K., Christensen, J.T. & Grønkjær, P. 2012. Spatial variability of carbon ($\delta^{13}\text{C}$) and nitrogen ($\delta^{15}\text{N}$) stable isotope ratios in an Arctic marine food web. *Marine Ecology Progress Series*, **467**: 47-59.
- Kristensen, T., Nielsen, A.I., Jørgensen, A.I., Mouritsen, K.N., Glenner, H., Christensen, J.T., Lützen, J. & Høeg, J.T. 2012. The selective advantage of host feminization: a case study of the green crab *Carcinus maenas* and the parasitic barnacle *Sacculina carcini*. *Marine Biology* **159**:2015–2023. DOI 10.1007/s00227-012-1988-4
- Grønkjær, P., Petersen, J.B., Ankjærø, T.T., Kjeldsen, H., Heinemeier, J., Steingrund, P., Nielsen J.M. & Christensen, J.T. 2013. Stable N and C isotopes in the organic matrix of fish otoliths: Validation of a new approach for studying spatial and temporal changes in the trophic structure of aquatic ecosystems. *Canadian Journal of Fisheries and Aquatic Sciences* **70**: 143-146. dx.doi.org/10.1139/cjfas-2012-0386
- Richardson K, Bendtsen J, Christensen JT, Adjou M, Lyngsgaard MM, Hilligsøe KM, Pedersen JB, Vang T, and Nielsen MH 2014. Localised mixing and heterogeneity in the plankton food web in a frontal region of the Sargasso Sea: Implications for eel early life history? *Marine Ecology Progress Series*, **504**: 91-107.

Kristensen L., Sparrevohn C.R., J. T. Christensen J.T., & J. G. Støttrup J.G. 2014
Cryptic behaviour of juvenile turbot *Psetta maxima* L. and European flounder *Platichthys flesus* L.
Open Journal of Marine Science **4**:185-193.

Jaspers, C., Huwer, B., Antajan, E., Hosia, A., Hinrichsen, H-H., Biastoch, A., Angel, D., Asmus, R., Augustin, C., Bagheri, S., Beggs, S. E., Balsby, T. J. S., Boersma, M., Bonnet, D., Christensen, J. T., Daenhardt, A., Delpy, F., Falkenhaus, T., Finenko, G., Fleming, N. E. C. & 27 et al. 2018,
Ocean current connectivity propelling the secondary spread of a marine invasive comb jelly across western Eurasia. *Global Ecology and Biogeography*. **27**: 814-827.

Christensen, J.T., Halberg, K., Riddervold, M. Wind, P. og Bregnballe, T. 2020. Reservatet Klægbanken i Ringkøbing Fjord – Historie, areal- og vegetationsudvikling, med bemærkninger om faunaen. *Flora og Fauna* **125**: 47-55.

Cordier, A., Bendtsen, J., Daugbjerg, N., From, N., Jónasdóttir, S.H., Mousing, E.A., Christensen, J.T., da Silva, T.S.G., Richardson, K. 2024. Patchiness of plankton ecosystem structure due to nutrient mixing along the shelf edge in the North Sea. Preprint, <https://doi.org/10.21203/rs.3.rs-3945403/v1>

Bregnballe, T., Halberg, K. Amstrup, O. og Christensen, J.T. Reservatet Klægbankens ynglefugle 1893-2021. *Dansk Ornitologisk Forenings Tidsskrift*. *In prep*.

Other publications, reports and conference contributions

Christensen, J.T. 1980. Lækat og brud på Tipperne. *Gejrfuglen*, **16**: 24-25.

Christensen, J.T. 1981. Teori og empiri i Økologiske modeller. *Niche*, **2**: 18-23.

Christensen, J.T., og Christensen, P. 1981. Tema: Evolutionsteorien. *Niche* **2**: 177-184.

Christensen, J.T., Christensen, P., Nielsen, H. J. og Ringgård, J. 1981. Naturens hierarki. *Niche* **2**: 243-249.

Christensen, J.T., Christensen, P. og Ringgård, J. 1982. Darwinismens oprindelse, udvikling og perspektiver. *Nordisk Forum*, 34 (vol. **17**, nr. 2): 10-27.

Christensen, J.T. 1982. Ecological aspects of the rodent pest problem. Presented at: Biannual Agricultural Conference, Sept. 1982, Arusha, Tanzania. 6 pp.

Christensen, J.T. 1983. Rats and plague. Presented at: Workshop on plague control measures, Nov. 1983, Dar es Salaam, Tanzania. 6 pp.

Christensen, J.T. 1984. Trainer's guide to improved rat control. West Virginia University, Division of International Agriculture and Forestry, Publication Number 117. 29 pp.

Christensen, J.T. 1985. Zoo-guide. Løveparken Zoo, Givskud, 22 pp.

- Christensen, J.T. 1988. Vandrotter og rovfugle på Klægbanken. pp 67-72 I: H. Meltofte (ed.) Naturpejlinger. 16 undersøgelser af planter og dyr på danske naturreservater. Skov- og Naturstyrelsen, Miljøministeriet.
- Christensen, J.T., Mallya, G.A. and Jensen, B.S. 1989. Denmark-Tanzania Rodent Control Project. Project Review. Report to Danida. 26 pp.
- Christensen, J.T. 1990. Wildlife conservation education in the SADCC region. Report to Danida. 20 pp.
- Christensen, J.T. 1990. A local video network as an educational tool in the zoo. P. 116, In: Seger, J. and Witte, G.R. (Eds.) Zoos Towards the Year 2000. Proceedings from European Zoo Educators' Conference, Ramat Gan, Israel, Sept. 1989. Kassel.
- Christensen, J.T. and Hansen, G.V. 1990. Close encounters of the second kind.- *Journal of the International Association of Zoo Educators*, **24**: 51.
- Christensen, J.T. 1991. En vejviser til alverdens dyr. Givskud Zoo. 24 pp. (Zoo-guide).
- Christensen, J.T. 1994. Modelling Biology. A first introduction. The International M.Sc. and Ph.D. Programme in Marine Science at Aarhus University. (Teaching compendium).
- Christensen, J.T. 1994. Models in Conservation. Introduction to Practicals. Workshop on Conservation Biology, 6-9 September 1994. Phuket Marine Biological Center, Thailand.
- Christensen, J.T. 1995. On the ecology of the Multimammate Rat *Mastomys natalensis* (A. Smith, 1834), with reference to its role as an agricultural pest. Ph.D. Thesis. Institute of Biological Sciences, Department of Ecology and Genetics, Aarhus University.
- Christensen, J.T. 1996. In the Andaman Islands. *Phuket mar. biol. Cent. Spec. Publ.*, **16**: 335-338.
- Christensen, J.T. 1996. *Littoraria* – Fungivores of Mangroves (poster). Fifth International Symposium on Littorinid Biology, Cork, Ireland, sept. 1996.
- Christensen, J.T., Cedhagen, T. og Hylleberg, J. 1998. Limfjordens naturforhold i fortiden – faunaændringer belyst ved subfossiler fra Bjørnsholm Bugt. Limfjordsprojektet. Rapport nr. 8. Moesgård. 12 pp.
- Christensen, J.T. 1999. Diet in *Littoraria*. (Præsentation). Sixth International Symposium on Littorinid Biology, Priory, Jamaica, juli 1999.
- Christensen, J.T., Ellegaard, M., Cedhagen, T. & Hylleberg, J. 2000. Ændringer i Limfjordens saltholdighed belyst ved analyse af makrofauna og dinoflagellat-cyster i sedimentkerner (poster). 11. danske Havforsker møde, Roskilde.
- Pecseli, M., Pritzl, G. & Christensen, J.T. 2002. Polycyclic aromatic hydrocarbons (PAHs) in marine biota from Southern Greenland (poster). 12. danske Havforsker møde, Aarhus.

Pecseli, M., Vang, O., Pritzl, G. & Christensen, J.T. 2002. EROD activity in demersal fish from a Danish fjord (poster). 12. danske Havforsker møde, Aarhus.

Pecseli, M., Pritzl, G., Carstensen, J., Asmund, G. & Christensen, J.T. 2002. Polycykliske aromatiske hydrocarboner i marine biota fra Grønland. Natur- og Miljøforskningskonference, 22.-23. august, H. C. Ørsted Institut, København.

Christensen, J.T. 2002. Limfjordens fortid. I: J. Støttrup, P. Dolmer og E. Hoffmann: Rapport fra mini-symposiet: Variationer i tid og rum af hydrografi, flora og fauna i Limfjorden. 4.-5- september 2002. Pp. 231-232.

Sode, S. og Christensen, J.T. 2005. Stabile isotoper som indikatorer for trofisk niveau hos øregøplen (*Aurelia aurita*). Poster. 13. danske Havforsker møde, København.

Christensen, J. T. Richardson, K. 2005. What porpoises can tell us about ecosystem structure. Oceans Past, International Open Science Conference, Kolding.

Dalsgaard, Anne Johanne, Villy Christensen, Hanne Nicolajsen, Anders Koed, Josianne Støttrup, Jane Grooss, Thomas Bregnballe, Henrik Løkke Sørensen, Jens Tang Christensen og Rasmus Nielsen. 2008. Økosystemmodel for Ringkøbing Fjord - skarvbestandens påvirkning af fiskebestandene. DTU Aqua-rapport nr. 178-08, 74 pp.

Pedersen, J.B., Christensen, J.T. & Richardson, K. 2008. Koblingen mellem kulstofkredsløbet og kvælstofkredsløbet i havet. Kulstofprojektet. Poster. Galathea 3-arrangement 2008. Ministeriet for Videnskab, Teknologi og Udvikling.

Eliassen K., Reinert J., Gaard E., Grønkjær P., Christensen J.T. 2009. Mortality of juvenile sandeel on the Faroe Shelf because of food limitation. ICES CM Annual Science Conference, Berlin, Germany. Published abstract.

Pedersen, Jens Brøgger; Christensen, Jens Tang; Richardson, K. 2009. Brug af stabile isotoper til undersøgelse af koblingen mellem kvælstoffiksering og denitrifikation i Humboldtstrømmen. In: 15. danske Havforsker møde, Programme and abstracts. Copenhagen University. Poster.

Pedersen, Jens Brøgger; Christensen, Jens Tang; Richardson, K.. 2009. Undersøgelse af kvælstofkilder i det sydlige indiske Ocean. In: 15. danske Havforsker møde, Programme and abstracts. Copenhagen University. Poster.

Christensen, J. T., 2011. Optisk kvantificering af gopler. Poster; 16. danske Havforsker møde.

Christensen, J. T., Bruhn, A., Pedersen, J. B., LaRoche, J. & Richardson, K., 2011. Nitrogenfiksering i opstrømningsområdet ud for tropisk Sydamerika: Data fra N- og O-isotoper i nitrat samt gen-analyse. Præsentation ved det 16. danske Havforsker møde.

Christensen, J. T., Sode, S. & Krawack, M., 2011. Goplers relative trofiske niveau bestemt ved $\delta^{15}\text{N}$. Poster; 16. danske Havforsker møde.

Eliassen, K., Reinert, J., Gaard, E., Bogi, H., Grønkjær, P. & Christensen, J. T. 2011. Recruitment and condition of juvenile sandeel on the Faroe shelf in relation to primary production. Præsentation ved det 16. danske Havforsker møde.

Grønkjær, P., Christensen, J. T., Munk, P., Nielsen, T. G. & Deibel, D., 2011. Stabile isotoper indikerer intra- og interspecifik variation i diæten hos tropiske ålelarver. Poster; 16. danske Havforsker møde.

Hansen, J. H., Hedeholm, R. B., Sünksen, K., Christensen, J. T. & Grønkjær, P., 2011. Fødenetstruktur i Grønland og effekten af breddegrad. Poster; 16. danske Havforsker møde.

Kristensen, T., Jørgensen, A.I., Nielsen, A.I., Høeg, J., Lützen, J., Glenner, H., Mouritsen, K. N. & Christensen, J. T., 2011. Feminisering af strandkrabben *Carcinus maenas* forårsaget af rodkrebsparasitten *Sacculina carcini* i Limfjorden. Præsentation ved det 16. danske Havforsker møde.

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Pedersen, J. B., Hedeholm, R. B., Christensen, J. T. & Grønkjær, P., 2011. Trofisk kronologi (1927-2010) for torskebestanden (*Gadus morhua*) i Nuuk Fjord. Præsentation ved det 16. danske Havforsker møde.

Richardson, K., Hilligsøe, K. M., Bendtsen, J., Christensen, J. T., Sørensen, L. L., Nielsen, T. G. & Lyngsgaard, 2011. Temperatur og næringssalte i kontrol af fytoplanktonsamfundets størrelsesstruktur. Præsentation ved det 16. danske Havforsker møde.

Pedersen, J.B., Nielsen, J.M., Steingrund, P., Hansen, B., Hátún, H., Grønkjær, P. & Christensen, J. T. 2012. North Atlantic ecosystem shifts revealed by cod otolith $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ chronologies. Nordic Climate-Fish 2nd Conference, Risør Norway.

Pedersen, J. B., Hedeholm, R. B., Steingrund, P., Matras, U., Christensen, J. T. & Grønkjær, P., 2013. Stabile kvælstof- og kulstofisotopanalyser af historiske torskeøresten viser sammenhænge mellem klimaændringer og fødekædestruktur i Nordatlantiske økosystemer. Præsentation ved det 17. danske Havforsker møde.

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Nielsen E.H., Christensen J.T., Lund-Hansen L.C., Vang T., Markager S. og Nielsen M.H. 2017. Hydraulisk kontrol og sammensætning af fytoplankton og zooplankton i Lillebælt. Posterpræsentation ved 19. danske Havforsker møde.

Nielsen M.H., Lund-Hansen L.C., Nielsen E.H., Christensen, J.T., Vang, T. og Markager, S. 2017. Flere steder med intern hydraulisk kontrol i Storebælt. Implikationer for blanding og biologisk produktion. Præsentation ved 19. danske Havforsker møde.

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A 75-year record of North Sea food web dynamics based on the stable nitrogen isotopic composition of amino acids from harbor porpoise (*Phocoena phocoena*).

Riekenberg, P.M., Ijsseldiek, L.L., Leopold, M.F., Christensen, J.T., Gröne, A. & van der Meer, M.T.J. 2024. A 75-year record of North Sea food web dynamics based on the stable nitrogen isotopic composition of amino acids from harbor porpoise. Presentation at 2024 Ocean Sciences Meeting, New Orleans, Louisiana, USA.