

## Resr. CIHELIO ALVES AMORIM

### Personal Information

**Email:** camorim@metu.edu.tr

**Web:** <https://avesis.metu.edu.tr/camorim>

### International Researcher IDs

ScholarID: 8GABmqEAAAAJ

ORCID: 0000-0002-7171-7450

Publons / Web Of Science ResearcherID: Q-5965-2017

ScopusID: 57195436507

### Biography

Ph.D. in Biodiversity and M.S. in Botany by Universidade Federal Rural de Pernambuco - UFRPE. His studies aim to understand the main causes and consequences of cyanobacterial blooms, especially the effects of eutrophication, salinization, and climate change. In addition, to test biomanipulation tools to control cyanobacterial biomass using submerged macrophytes and zooplankton.

He is currently a Post-Doctoral Fellow at Middle East Technical University, supervised by Prof. Erik Jeppesen, working on the ecology of saline lakes in Türkiye. He is working on the project Climate change effects on trophic structure and dynamics in saline and brackish water based on a space-for-time field sampling, controlled mesocosm experiments, paleoecology, remote sensing and modelling (CLIM-SALTLAKES), supported by TUBITAK 2232 call. Email: [alvescihelio@gmail.com](mailto:alvescihelio@gmail.com)

### Education Information

Doctorate, Federal Rural University of Pernambuco, Department of Biology, Graduate Program in Biodiversity, Brazil 2017 - 2021

Postgraduate, Federal Rural University of Pernambuco, Department of Biology, Graduate Program in Botany, Brazil 2016 - 2017

Undergraduate, Regional University of Cariri, Department of Biological Sciences, Brazil 2012 - 2016

### Foreign Languages

English, C1 Advanced

Portuguese, C2 Mastery

### Dissertations

Doctorate, Algal Blooms in Pernambuco State, Brazil: Causes, Consequences, and Control, Federal Rural University of Pernambuco, Department of Biology, Graduate Program in Biodiversity, 2021

Postgraduate, Mutual allelopathic effects among the aquatic macrophyte *Egeria Densa* Planch. and the bloom-forming cyanobacteria *Microcystis*, Federal Rural University of Pernambuco, Department of Biology, Graduate Program in Botany, 2017

## Research Areas

Environmental Pollution, Ecology, Ecotoxicology, Limnology, Fresh-Water Biology, Algalogy, Evolution

## Academic Titles / Tasks

Researcher, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2021 - Continues

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Impact of zooplankton grazing on phytoplankton in north temperate coastal lakes: changes along gradients in salinity and nutrients**  
Christensen I., Pedersen L. K., Søndergaard M., Lauridsen T. L., Tserenpil S., Richardson K., Amorim C., Pacheco J. P., Jeppesen E.  
HYDROBIOLOGIA, vol.850, no.20, pp.4609-4626, 2023 (SCI-Expanded)
- II. **A New Species of Evolvulus (Convolvulaceae) with Golden Hairs from the Brazilian Cerrado**  
Santos D., Amorim C., Buril M. T.  
Systematic Botany, vol.48, no.1, pp.140-144, 2023 (SCI-Expanded)
- III. **A New Species of Evolvulus (Convolvulaceae): A Rare and Threatened Species from the Brazilian Cerrado, a Neotropical Biodiversity Hotspot**  
Santos D., ALVES AMORIM C., da Silva M. J., Buril M. T.  
SYSTEMATIC BOTANY, vol.47, no.4, pp.1094-1099, 2022 (SCI-Expanded)
- IV. **Freshwater salinisation: a research agenda for a saltier world**  
Cunillera-Montcusí D., BEKLİOĞLU M., Cañedo-Argüelles M., Jeppesen E., Ptacnik R., Amorim C., Arnott S. E., Berger S. A., Brucet S., Dugan H. A., et al.  
TRENDS IN ECOLOGY & EVOLUTION, vol.37, no.5, pp.440-453, 2022 (SCI-Expanded)
- V. **Exposure to toxic Microcystis via intact cell ingestion and cell crude extract differently affects small-bodied cladocerans**  
de Aquino Santos A. S., Palmeira Vilar M. C., Amorim C., Reis Molica R. J., Moura A. d. N.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.29, no.16, pp.23194-23205, 2022 (SCI-Expanded)
- VI. **Increased Water Abstraction and Climate Change Have Substantial Effect on Morphometry, Salinity, and Biotic Communities in Lakes: Examples from the Semi-Arid Burdur Basin (Turkey)**  
Colak M. A., Oztas B., ÖZGENÇİL İ. K., Soylier M., Korkmaz M., Ramirez-Garcia A., Metin M., Yilmaz G., Ertugrul S., TAVŞANOĞLU Ü. N., et al.  
WATER, vol.14, no.8, 2022 (SCI-Expanded)
- VII. **Habitat templates of phytoplankton functional groups in tropical reservoirs as a tool to understand environmental changes**  
Amorim C., Moura A. d. N.  
HYDROBIOLOGIA, vol.849, no.5, pp.1095-1113, 2022 (SCI-Expanded)
- VIII. **Ecological impacts of freshwater algal blooms on water quality, plankton biodiversity, structure, and ecosystem functioning**  
Amorim C., Moura A. d. N.  
SCIENCE OF THE TOTAL ENVIRONMENT, vol.758, 2021 (SCI-Expanded)
- IX. **Modeling cyanobacterial blooms in tropical reservoirs: The role of physicochemical variables and trophic interactions**  
Amorim C., Dantas E. W., Moura A. d. N.  
SCIENCE OF THE TOTAL ENVIRONMENT, vol.744, 2020 (SCI-Expanded)
- X. **Effects of the manipulation of submerged macrophytes, large zooplankton, and nutrients on a cyanobacterial bloom: A mesocosm study in a tropical shallow reservoir**

Amorim C., Moura A. N.

ENVIRONMENTAL POLLUTION, vol.265, 2020 (SCI-Expanded)

- XI. **Advances in limnological research in Earth's drylands**  
Barbosa L. G., Amorim C., Parra G., Laco Portinho J., Morais M., Morales E. A., Menezes R. F.  
INLAND WATERS, vol.10, no.4, pp.429-437, 2020 (SCI-Expanded)
- XII. **Seasonal variations of morpho-functional phytoplankton groups influence the top-down control of a cladoceran in a tropical hypereutrophic lake**  
Amorim C., Valença C. R., de Moura-Falcao R. H., Moura A. d. N.  
AQUATIC ECOLOGY, vol.53, no.3, pp.453-464, 2019 (SCI-Expanded)
- XIII. **Cyanobacterial blooms in freshwater bodies from a semiarid region, Northeast Brazil: A review**  
Moura A. d. N., Aragao-Tavares N. K. C., Amorim C.  
JOURNAL OF LIMNOLOGY, vol.77, no.2, pp.179-188, 2018 (SCI-Expanded)
- XIV. **Biometric and physiological responses of *Egeria densa* Planch. cultivated with toxic and non-toxic strains of *Microcystis***  
Amorim C., Ulisses C., Moura A. N.  
AQUATIC TOXICOLOGY, vol.191, pp.201-208, 2017 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Growth of *Microcystis* strains isolated from environments with the presence and absence of submerged macrophytes in coexistence with *Ceratophyllum demersum***  
de Moura-Falcão R. H., Moura A. D. N., Amorim C.  
Acta Scientiarum - Biological Sciences, vol.43, 2021 (Scopus)
- II. **Allelopathic effects of the aquatic macrophyte *Ceratophyllum demersum* L. on phytoplankton species: Contrasting effects between cyanobacteria and chlorophytes Efeitos alelopáticos da macrófita aquática *Ceratophyllum demersum* L. Sobre espécies fitoplanctônicas: efeitos contrastantes entre cianobactérias e clorófitas**  
ALVES AMORIM C., de Moura-Falcão R. H., Valença C. R., de Souza V. R., Moura A. D. N.  
Acta Limnologica Brasiliensia, vol.31, 2019 (Scopus)

## Supported Projects

Jeppesen E., Beklioglu M., Özkan K., Alves Amorim C., TUBITAK Project, Climate change effects on trophic structure and dynamics in saline and brackish water based on a space-for-time field sampling, controlled mesocosm experiments, paleoecology, remote sensing and modelling (CLIM-SALTLAKES), 2020 - 2024

## Awards

Alves Amorim C., CAPES Grand Award for the best thesis in life sciences in Brazil, Coordination For The Improvement Of Higher Education Personnel (Capes), November 2022

Alves Amorim C., CAPES Award for the best thesis in Brazil in Biodiversity, Coordination For The Improvement Of Higher Education Personnel (Capes), August 2022

Alves Amorim C., Best Master's Thesis in Life Sciences from Federal Rural University of Pernambuco, Federal Rural University Of Pernambuco, March 2018