

Bilassé Zongo

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University of Bobo-Dioulasso

Date of birth: 31/12/1980

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Curriculum vitae

Current activities

Permanent lecturer at the Polytechnic University of Bobo-Dioulasso

Lecturer at the CEPAPE (Centre d'Etude pour la protection, l'Amenagement et la Protection de l'Environnement) on « aquatic ecosystems », University of Ouagadougou

Postdoctoral student and visiting scientist at "Unesco-ihe Institute for Water Education", Delft, The Netherlands from January to December 2016

Research interests

My current research work is particularly focused on microalgae communities in freshwater ecosystems and their interactions with physico-chemical and biological parameters of water. At the same time I work on the influence of anthropogenic factors and climate change on the previous parameters of water.

The ongoing different research works aim at contributing fundamentally to find solutions and strategies to solve problem of habitats and natural biological resources degradations particularly in Burkina Faso and in sub-Saharan regions of Africa in general.

Wastewater treatment particularly using biological methods, water reuse and biomass recovery.

University studies

2007-2011: doctoral studies in biology and ecology of plants (hydrobiology/phytology), university of Ouagadougou

2005-2006: master in biology and ecology of plants (hydrobiology/phycology), university of Ouagadougou

2001-2004: bachelor in biological sciences, University of Ouagadougou

Professional experiences

Teachings

2006-2011: supervisor of practical works in cellular biology, University of Ouagadougou

2006-2013: supervisor of practical works in phycology, water and sanitation, University of Ouagadougou

2005-2009: courses in ecology at the secondary school, Lycée Privé Ridwane in Ouagadougou

07th-12th March 2011: trainer of PhD and master students of the Laboratory of Plants Biology and Ecology on different tools and methods of statistical analyses of ecological data

Received trainings

29th April 2016: Flow cytometry for cell counting and sorting

March 2016: Fluorescence In situ Hybridization for algae and bacteria in a mixed culture

29th september – 03rd october 2014: Pre-congress training of the XXIVth congress of IUFRO on the topic: « methods of forestry research »

28th April – 04th may 2013: EXCEED regional course on “Water/Wastewater management” at the University of Malawi in Zomba, Malawi

03rd March to 31st July 2012: training course in Romania on “phytoextraction of heavy metals from wastewater using aquatic plants”

13th-17th December 2011: training on statistical analysis of data using “R software”, IRD of Bobo Dioulasso, Burkina Faso

23rd September-19th December 2009: training course on statistical analysis of ecological data at the Humboldt University, Berlin, Germany

25th-27th February 2009: training course on statistical analysis of data using JMP (SAS), University of Ouagadougou

Computer skills

Strong knowledge in using MS Word, Excel, Powerpoint, Access, internet

Knowledge on statistical programs that are "Statistica", JMP (SAS), "Canoco", "PcOrd"

Language proficiency

Language	reading	speaking	Writing
French	very good	very good	very good
English	good	good	good

Workshop, congress and conference participations

05th-11th October 2014: IUFRO world congress on the topic "Sustaining forests, sustaining people, the role of research" in Salt Lake City (UTAH), USA

25th-29th June 2012: IUFRO-FORNESSA Regional Congress and ITTO/AFF Forest Policy Day, Nairobi, Kenya on the theme "Forests and Trees: Serving the people of Africa and the World"

1st-3rd February 2011: Workshop of EXCEED (Excellence Center for Development Cooperation, Sustainable water management) project at the University of Ouagadougou

25th-27th January 2010: final workshop of BIOTA (Biodiversity Monitoring Transect Analysis) of West Africa, Ouagadougou/Burkina Faso

8th-13th October 2007: Workshop of BIOTA project of West Africa, Natitingou/Bénin

Publications

Journal publications

Bilassé Zongo, Frédéric Zongo, Toguyeni Aboubacar, Joseph I. Boussim (2016). Water quality in forest and village ponds in Burkina Faso (West Africa). Journal of Forestry Research, under review

Bilassé Zongo, Frédéric Zongo (2016). Microalgae community composition in tropical temporary ponds of Burkina Faso (West Africa). American Journal of Agricultural Science, 3(5): 72-84

Bilassé Zongo, Joseph I. Boussim (2015). The effects of physico-chemical variables and tadpole assemblages on microalgae communities in freshwater temporary ponds through an experimental approach. *Aquatic Biosystems*, 11 (1): 1-14

Erzsebet BUTA, Annamária TÖRÖK, Árpád CSOG, Bilassé ZONGO, Maria CANTOR, Mihai BUTA, Cornelia MAJDIK (2014). Studies of the phytoextraction capacity of five aquatic plants in heavy metals contaminated water, *Not Bot Horti Agrobo*, 42(1):173-179

Bilassé Zongo, Frédéric Zongo, Allassane Ouattara, Joseph I. Boussim (2011). A taxonomic study of the genus *Closterium* Nitzsch (Zygnematophyceae, Streptophyta) in temporary ponds (Burkina Faso, West Africa). *Cryptogamie Alg.*, 32 (3)255-270

Bilassé Zongo, Frédéric Zongo, Adama Ouéda, Alain Couté, Joseph I. Boussim (2011). Étude des genres *Actinotaenium* (Näg.)Teiling et *Cosmarium* Corda ex Ralfs (Desmidiaceae/Chlorophyta) dans les mares temporaires des régions du Centre, de l'Est et du Nord du Burkina Faso. *Int. J. Biol. Chem. Sci.*, 5(2) 554-569.

Frédéric Zongo, Bilassé Zongo, Joseph I. Boussim, Alain Couté (2008). No uveaux taxa de microalgues dulçaquicoles pour le Burkina Faso (Afriquede l'Ouest): I- Chlorophyta. *Int. J. Biol. Chem. Sci.*, 2(4) 508-528.

Frédéric Zongo, Bilassé Zongo, Adama Ouéda, Joseph I. Boussim, Gérard Mascarell, Alain Couté (2007). Etude morphologique au microscope électronique à balayage de quelques microalgues dulçaquicoles du réservoir de Bagré (province du Boulgou, Burkina Faso). *Ann.Univ. Ouaga*. 5: 79-93.

Fédéric Zongo, Bilassé Zongo, Adama Ouéda, Joseph I. Boussim, Alain Couté (2007). Diver sité des nouveaux taxa de micro-algues dulçaquicoles pour le Burkina Faso (Afrique de l'Ouest) : II-Cyanophyta, Heterokontophyta, Euglenophyta. *Ann. Univ. Ouaga.*, 5: 51-78.

Conference papers

Bilassé Zongo and Joseph I. Boussim (2014). Forestry reserves and ponds water quality in a subsaharan region of Africa (Burkina Faso). www.cfa-international.org, 16(5).2014, http://iufro2014.com/wpcontent/uploads/2014/10/IUFRO_Incubator_Abstracts_Final_USletter.pdf

Bilassé Zongo, Frédéric Zongo, Joseph I. Boussim (2012). Importance of forestry reserves to the regulation of water quality and microalgae structure of temporary ponds in Burkina Faso (West Africa). <http://www.fornis.net/congress/en/congressprogram>

Bilassé Zongo, Frédéric Zongo, Joseph I. Boussim (2010). Diversity of microalgae in Burkina Faso. AETFAT conference

Posters

Bilassé Zongo, Frédéric Zongo, Mark-Oliver Rodel, Alain Couté, Joseph I. Boussim (2008). Diversité des micro-algues au Burkina Faso.

Bilassé Zongo, Frédéric Zongo, Mark-Oliver Rodel, Joseph I. Boussim (2010). Temporary ponds: reservoir of large diversity of microalgae

Degree theses

Bilassé Zongo (2007). Étude du phytoplancton dans le canal du Parc Urbain Bangr –Wéoogo (Ouagadougou/Burkina Faso). Mémoire de DEA, Université de Ouagadougou, 68 p.

Bilassé Zongo (2011). Communautés micro-algales dans les mares temporaires et bacs expérimentaux, interactions avec variables physico-chimiques et assemblages de têtards en Afrique de l'ouest. Thèse de doctorat unique, Université de Ouagadougou, 192 p.