

INGE JONCKHEERE

Environmental Engineer

Remote Sensing, Earth
Observation & Innovation

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PRIVATE ADDRESS

Brussels, Belgium

ACTUAL RESIDENCE

Rome, Italy

CURRENT WORKING ADDRESS

Food and Agriculture Organization (FAO) of the United Nations
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PERSONAL DATA

Date of birth	26 May 1977
Place of birth	Ghent, Belgium
Residence	Rome, Italy
Nationality	Belgian

CURRENT POSITION

Jan 2010 – current

Remote Sensing expert
Team Leader Thematic Area 'Satellite Land Monitoring Systems'
- Earth Observation, Web portals & Innovation

NFM Team, Forestry Department (FOADD), FAO of the United Nations (UN), Rome, Italy

EDUCATION

April 2005

PhD in Applied Bioscience Engineering – Remote Sensing

Doctoral thesis title: "Consistent determination of LAI and quantification of LAI in forest canopies based on digital hemispherical photography."

Katholieke Universiteit Leuven, Faculty of Applied Bioscience and Engineering, Department of Land management, Geomatics Engineering Group, **Promotors:** Prof. P. Coppin and Prof. B. Muys

June 2000

M Sc in Environmental Engineering, option Land and Forestry management, cum laude.

Thesis title: "Relevance of Texture parameters in Remote Sensing applications with high spatial resolution."

Katholieke Universiteit Leuven, Faculty of Applied Bioscience and Engineering, Department of Land management, **Promotors:** Prof. P. Coppin and Prof. H. Gulinck

July 1995

Latin-Mathematics

Lyceum Onze-Lieve-Vrouw-van-Vlaanderen, Kortrijk

EXPERIENCES ABROAD

2012-2020	Intensive teaching on land use (change), remote sensing: Lima (Peru), Paro (Bhutan), Arusha & Morogoro (Tanzania), Lusaka (Zambia), Hanoi & Ho Chi Minh City (VietNam), Harare (Zimbabwe), Khartoum (Sudan)
October 2014	Co-organisation and preparation for the teaching on Land use Monitoring & MRV aspects in the REDD+ context, REDD+ University, Calabar, Nigeria
2009-2015	Organisation and support for the teaching on National Forest Monitoring for REDD+, CRA INPE, Belém, Brazil
September 2011	Research and teaching exchange at the Instituto de Desenvolvimento Florestal (IDF), Luanda, Angola
August-September 2008	Research stay at the Ecology Department at the Earth Institute of the Columbia University, New York City, USA
June 2007	Research collaboration with the Smithsonian Tropical Research Institute (STRI), Panama City, Panama
July-August 2006	3rd ESA Envisat Summerschool: "Data assimilation" at ESA-ESRIN, Frascati, Italy
June 2005	VALERI Field campaign in collaboration with the University of Helsinki, Suonenjoki, Finland
October 2000- January 2001	Research concerning 'Greenways', funded by the Flemish Community, in collaboration with Università degli Studi di Milano, in the GIS laboratory at the Istituto di Ingegneria di Milano, Italy
1998- 1999	Erasmus exchange program for first semester at the Università degli Studi di Milano, Italy

PREVIOUS WORK EXPERIENCES

May 2009 –Jan 2010

Visiting Scientific Expert - Remote Sensing for National Forest Monitoring Systems: land use assessment

Forestry Department, Forest Management Unit (FOMR)
FAO HQ of the United Nations, Rome, Italy

May 2006 - May 2009

ESF-Science Programme Manager European projects-Environment

EUROCORES Programme Coordinator for Environmental Sciences
Overall Programme Coordinator for EuroDEEP, EuroDIVERSITY, EuroEEFG Programmes
Responsible Science Officer for the CLIMMANI Research Networking Programme
BiodivERsA, EUFAR FP6 and ERC Liaison Officer

European Science Foundation, Strasbourg, France, Unit Life, Earth & Environmental Sciences

Guest Lecturer KULeuven, Faculty of Applied Bioscience and Engineering, Belgium

Postdoctoral Research Fellow, FWO, Flanders, Belgium (2006-2009)

May 2005 - May 2006

Senior Research Associate, Team leader Geomatics Engineering Group

Katholieke Universiteit Leuven, Faculty of Applied Bioscience and Engineering, Biosystems Department, Leuven, Belgium

January 2001 – April 2005

Research Associate at the Geomatics group in the Department of Land Management

Doctoral training program and project management of Flemish FWO-project G.0085.01 entitled "Consistent determination of Leaf Area Index based on digital hemispherical photography."

Katholieke Universiteit Leuven, Faculty of Applied Bioscience and Engineering, Leuven, Belgium

January 2000 – May 2000
Summer 1999

Different collaborations with the Katholieke Universiteit of Leuven and Università' degli Studi di Milano

ACADEMIC TEACHING

2001 –2008

- ✓ Lecturer "Earth Observation" in the Bio-engineering Master at the KUL, Faculty of Applied Bioscience and Engineering (FABSE), 90h (2005-2008)
- ✓ Lecturer "Land and Forest inventory" in the Bio-engineering Bachelor at the KUL, Faculty of Applied Bioscience and Engineering (FABSE), 30 h (2005-2006; 2007-2008)
- ✓ Lecturer "Remote sensing of Vegetative Systems" in the Bio-engineering Master at the KUL, FABSE, 60h (2007-2008; 2008-2009)
- ✓ Lecturer "Vegetative Canopy Modelling" in the advanced Master program in Earth Observation at the KUL, FABSE, 60h (2005-2007)

- ✓ Assistant "Earth observation" in the third year of Bio-engineering Bachelor at the KUL, Faculty of Applied Bioscience and Engineering (FABSE), 90h (2001-2005)
- ✓ Assistant "Reference database establishment" in the advanced Master program in Earth Observation at the KUL, FABSE, 30h (2000-2001)
- ✓ Assistant "Vegetative canopy modelling" in the advanced Master program in Earth Observation at the KUL, FABSE, 60h (2001-2005)
- ✓ Assistant "Introduction to the agricultural, bio-industrial and environmental sciences" in the first year of Bachelor Bio-engineering, KUL, FABSE, 30h (2004-2006)
- ✓ Supervision of undergraduate thesis "Structure description of fruit orchards by means of Lidar" by Dimitry Van Der Zande

RESEARCH INTERESTS

Remote sensing applications, Land use/land cover and forest management, Innovation (AI & block chain), Environmental change, (Digital) image processing, biodiversity and carbon studies, environmental modeling, earth observation, forestry, cultural heritage applications with RS

PROFESSIONAL AFFILIATIONS

Memberships: IEEE, AGU, EGU, BES, EPWS, Euroscience

Regular external reviewer:

Annals of Forest Science, Boreal Environment Research, Trees- Structure and Function, Trees, Tree Physiology, Forest Ecology and Management, Geocarto International, Ecological Modelling, Ecological Informatics, Land, International Journal of Remote Sensing, Remote Sensing, Canadian Journal of Remote Sensing, iForest, Ecological Indicators, Remote Sensing of Environment, IEEE Transaction on Geoscience and Remote Sensing, Agricultural and Forest Meteorology, International Journal of Biometeorology, Sensors, Journal of Forest Research, European Journal of Forest Research, Field Crops Research, Sylva Fennica, Agricultural Sciences in China, Transactions on Intelligent Systems and Technology, Journal of Selected Topics in Earth Observations and Remote Sensing, International Journal of Applied Earth Observation and Geoinformation, Scientia Horticulturae, Carbon Balance and Management, Ecology and Evolution, PlosOne, Remote Sensing in Ecology and Conservation

Editorial Board Research & Reviews in Bioscience, Authorship: over 50 international conference proceedings, 25 peer reviewed papers and book chapters

Member Scientific Committee IGARSS (2008-2020) & INGARSS (2020), Expert in FP7 (EC) (2006-2014), Expert in Horizon 2020 (2017-2020), Member Scientific Subcommittee BiodivERsA

Organizer and co-organizer of several international workshops and conferences or sessions (Marbef, EGU, AGU, IUFR0, etc.)

Since 2011: Official GHG Expert for UNFCCC roster of Experts (Belgium), Since 2013: Official reviewer for GHG-LULUCF sector for Annex I countries for UNFCCC: FREL and BUR, Since 2017: IPCC Lead Author for AFOLU in 2019 Refinement of 2006 GHG GPG, Lead Author for IPCC Assessment Report 6, WG III