

# COPERNICUS & DIGITAL EARTH STUDY

JANUARY 2024 ISSUE NO 1









Palacký University Olomouc





# https://master-cde.eu/programme/accreditation

Austria <sup>7</sup>C<sub>RED</sub>ITEO

## AQ quality seal 2022-2028

After an intense procedure and overall fulfillment of all necessary requirements, the Agency for Quality Assurance and Accreditation Austria (AQ Austria) awarded the programme with a quality seal applicable for a period of six years. This was in compliance with the European Approach for the Quality Assurance of Joint Programmes (2015).









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### Happy New Year!!!

Welcome to the first edition of the 'Study Copernicus & Digital Earth' newsletter series. In this issue, as well as forthcoming editions, stay updated on the latest news within the Copernicus Master in Digital Earth (CDE) programme and explore fascinating insights into the geospatial field.

To kick-start the new CDE edition which welcomes its first cohort in the academic year 2024/25, a call has been opened for applicants across the globe on Oct 25, 2023 to Jan 10, 2024.



360 candidates successfully completed their applications before the deadline. The selection process is ongoing and soon enough eligible candidates will be interviewed and selected. We wish all candidates the very best.

# Erasmus Mundus Joint Master CDE-EMJM

The distinct Erasmus Mundus joint Master of Science (MSc) programme promotes the highest quality postgraduate education aiming at qualifying students to leadership in translating Copernicus services and the Digital Earth vision. A revised curriculum has been implemented and accredited in 2023. CDE advances domain specific knowledge and understanding, drives innovation, and contributes to the resolution of complexity on the interaction between humans and virtual representations of our world from local to global scales.







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#Copernicus #DigitalEarth #E0 #GeodataScience
Artificial Intelligence for Earth Observation #AI4E0
#Geovisualisation #Gecommunication
Core fields of the geospatial
Master of Science

### A little dive into the revised curriculum

In our commitment to delivering a high-quality educational experience, the CDE programme undergoes a comprehensive curriculum review on a regular basis. This process ensures alignment with industry standards and incorporates valuable feedback and recommendations from both current students and alumni. Discover some intriguing updates below:

Focus on object-based image analysis, big EO data analytics, advanced remote sensing, geospatial analysis, & integrated programming skills.

A new Project Management course has been integrated as a "student demand".

Blended Intensive Programmes (BIP) & Summer Schools have been designed to expose students outside, and to enhance networking with industry.

PROGRAMME STRUCTURE COPERNICUS MASTER IN DIGITAL EARTH	
$\mathbf{\overline{\mathbf{v}}}$	ECTS
B1 – Orientation Project	6
B2 – Space-Time Models & Representations	6
B3 – Digital Earth Observation & Technologies	12
B4 – Spatial Image Analysis	6
B5 – Integrated Applications	12
SIP – Short Intensive Programmes	9 3
UBS: GeoData Science & Al4EO	30
UPOL: Geovisualisation & Geocommunication	30
ES - Elective Subjects	6 12
Master Thesis (incl Master's exam)	21
Work Placement / Internship	12   18
Total	120

Two distinct practical experiences are offered: (1) skill-based internship spanning two months or (2) a collaborative research work placement, fostering engagement with industry or a research institute and the potential to contribute to a student's Master's Thesis research.







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### **CDE consortium**

With the introduction of the collaborative research placement pathway in the curriculum, students have a broad spectrum of opportunities to explore, leveraging on a large consortium. The expansion of the CDE consortium introduces more partners, facilitating collaboration with institutions as well as students' work placement with notable industry partners.



Associated partners contribute to the study programme and provide added value to faculty and students. International associations and agencies support the project with outreach and contribute to knowledge and skills transfer.







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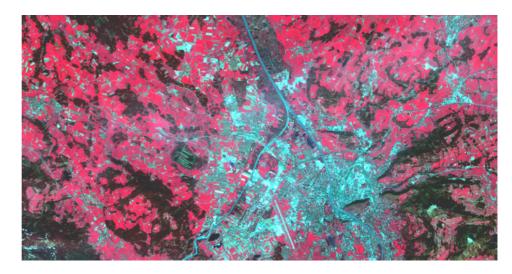


COPERNICUS MASTER

**25**<sup>TH</sup> ANNIVERSARY OF COPERNICUS

2023, the EU celebrated **25 years of Copernicus** - *Europe's Eye on Earth*, the European Union Flagship. It was a celebration of exceeded expectations for the Copernicus programme with a record of achievements such as the Sentinel satellites - which provides free and open data for all, as well as the Copernicus Land, Water, Atmosphere, Marine, Emergency, Climate Change and Security services.

CDE consortium partners and the Paris-Lodron's Department of Geoinformatics (Z\_GIS) have been involved in "Copernicus" related activities since the beginning. Ranging from strategic and development contributions for the Copernicus initiative from faculty and researchers to students' achievements.



contains modified Copernicus Sentinel data



IN DIGITAL EARTH



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**Department of Geoinformatics** 

Earth Observation & Geoinformatics



PARIS LODRON UNIVERSITY SALZBURG

meet core faculty and project members





Stefan Lang Joint Programme & Academic Lead



Barbara Schernthanner-Hofer Programme Board



Dirk Tiede Programme Board



Barbara Brunner-Maresch Project Management & Student Support



# Computer Science Department GeoData Science & AI4EO

**Department of Geoinformatics** 

**Geovisualisation & Geocommunication** 



Sébastien Lefèvre Academic Lead & Selection Committee Chair



Charlotte Pelletier Programme Board



Sandra Vessier Head of International Office



Pernelle Blaise Student Support



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Vít Vozenílek Academic Lead & Selection Committee Chair



Alena Vondráková Programme Board



Dana Gronychová Coordinator of International Mobility



Jakub Koníček Student Support







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PHOTO CREDITS: Cover: Stenhania Tum.

cover: Stephanie Tumampos others: PLUS, UBS, UPOL designed with canva.com



Salzburg, Vannes, Olomouc: contains modified Copernicus Sentinel data







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My name is **Felix Kroeber.** I work at the University of Salzburg, Austria as a research associate under two different projects. I studied Geography at the University of Cologne and continued with the CDE joint Master's programme at the University of Salzburg and the University of South Brittany.

# Why did you choose the CDE Master's programme?

After my Geography studies, I decided to get more involved in the quantitative data analysis which was briefly introduced during my undergraduate studies.

The CDE Masters' was a great opportunity to combine my application oriented interest with a methodological approach offered in the GeoData Science specialization track at the Computer Science Department of University of South Brittany in France.

# What experience stands out the most during your Master's study?

In terms of learning experience, I will say there was a great effort spent to adapt data science to the prior knowledge of students coming from different application-oriented domains which is why I specifically have chosen this track.

Also, the fact that the programme is split between two universities did not only include the obvious point of being exposed to different cultures in the corresponding countries, which is definitely nice, but also a change in the social dynamics of the group from a larger group with a greater variety of perspectives, to narrowed down interaction with a smaller group. Personally I found that very enriching.

# Would you have had your postgraduate studies another way?

No. I think I would actually do the same again. I really felt like this was a great mixture of different topics and methods which were enriching from my personal experience. I think what is really unique to this programme compared to other Erasmus opportunities is the special focus on either Geovisualisation or Geodata Science.

### Any advice for new students?

I think it is valuable to take some time at the beginning to see what is offered and align it to personal interests, topic-wise or method related and then build your profile steadily.

Also, familiarize yourself with the research focus of each university, depending on the study track and take advantage of that.







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### **COPERNICUS MASTER** IN DIGITAL EARTH

# **Faculty news**



Stefan Lang, as former Vice-Dean of the Faculty of Digital and Analytical Sciences has taken on the role of Vice-Rector at Paris-Lodron University Salzburg, starting in January 2024. CDE staff and students extend a heartfelt congratulations to Assoc. Prof. Stefan Lang, the academic coordinator of the Erasmus Mundus Joint Master's programme.



We would like to thank a truly remarkable individual who has recently retired from PLUS, the Z GIS department's founder Prof. Josef ("Sepp") Strobl. His vision, leadership, and tireless efforts have guided us to the success we enjoy. (Thomas Blaschke, Head of Department) Josef Strobl, Professor emeritus, CDE advisor. senior founder of the Department of Geoinformatics at PLUS initiator of Copernicus Master in Digital Earth programme, Digital Earth Alliance member, and much more.



# **Upcoming activities**

Selection Committee meeting on Feb 01, 2024

Project Kick-off meeting on Feb 2-3, 2024







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# **Co-funded by the European Union**

# **Erasmus Mundus Joint Master**

Copernicus Master in Digital Earth (CDE) is proudly co-funded by the European Union under the Erasmus+ programme. For a second period of funding (2023-2029), in total 83 student scholarships can be provided, in addition the programme can support 34 self-paying students with a fee-waiver. For the programme's period 2018-2024 a total of 61 scholarships have been offered to international and European students.