

ir. Seppe Lampe

PhD Candidate

✉ seppe.lampe@outlook.com

☎ +32 479 52 62 26

🌐 [Seppe Lampe](#)

🆔 0000-0002-7907-4496

🔗 [Seppe Lampe](#)

Summary

I am a PhD Researcher with excellent programming skills and knowledge of artificial intelligence (mainly machine learning). Furthermore, do I have a full background in Earth science. I combined both topics during my MSc studies in Applied Computer Science, where I chose the minor 'Environmental Informatics', and graduated summa cum laude as top of the class. The topic of my PhD is 'Detection and Attribution of Trends in Global Wildfire Activity via Machine Learning'. I have an analytical mindset, hard-working attitude and above all, I am a team-player.

Education

Dec 2021 – ongoing	PhD in Engineering <i>Vrije Universiteit Brussel</i> <ul style="list-style-type: none">Detection and Attribution of Trends in Global Wildfire Activity via Machine Learning
Sep 2019 – Aug 2021	Master of Science in Applied Sciences & Engineering: Applied Computer Science <i>Vrije Universiteit Brussel</i> <ul style="list-style-type: none">Thesis: Nowcasting of Extreme Thunderstorms over Lake Victoria via Machine Learning
<i>Summa cum Laude</i>	
Sep 2017 – Jun 2019	Master of Science in Geology <i>Ghent University</i> <ul style="list-style-type: none">Thesis: Iron and Oxygen Isotopic Characterization of Antarctic Glass Cosmic Spherules
<i>Magna cum Laude</i>	
Sep 2014 – Aug 2017	Bachelor of Science in Geology <i>Ghent University</i>
<i>cum Fructu</i>	

Work Experience

Aug 2020 – Sep 2020	Royal Observatory of Belgium <i>Student Job</i> <ul style="list-style-type: none">Digitalization of physical seismograms.
July 2019 – Aug 2019	Flanders Marine Institute (VLIZ) <i>Student Job</i> <ul style="list-style-type: none">Wrote article on the state-of-the-art of deep-sea mining, focusing on Belgian activities.
July 2019 – Aug 2019	ADEDE <i>Internship</i> <ul style="list-style-type: none">Geophysical detection of UXOs (unexploded ordnances).

International Experiences

Feb 2020	WaterEurope2020 Project in Nice, France.
Feb 2018 – Aug 2018	Erasmus+ mobility to Bologna, Italy.

Life Experiences

Sep 2016 – Aug 2019 | Reporter (2016 – 2017) and Web admin (2017 – 2019) of Geology Student Association (Geologica).
2012 – 2017 | Monitor in youth movement (KSA).
2003 – 2014 | Goalkeeper at local football club.

Additional Training

Oct – Nov 2021 | [Artificial Intelligence for Earth Monitoring MOOC by EUMETSAT](#).
Dec 2021 | [3rd Joint Training in Atmospheric Composition by ESA, EUMETSAT & ECMWF](#).

Awards

Nov 2021 | Finalist of the ie-net prizes: Top 15 engineering thesis in Flanders.

Languages & Skills

- Languages: Dutch (native), English (C2), French (B1) and Italian (B1).
- Programming Languages: Python, Java and Common LISP.
- Data Analysis: (Pandas, Numpy, Nctoolkit, Matplotlib, etc.).
- Machine Learning: (SciPy, Scikit-learn, Pytorch and Pytorch Lightning).
- GIS.

Publications

- 2022 | 2. **Lampe, S. et al.** Decoupling of chemical and isotopic fractionation processes during atmospheric heating of Antarctic micrometeorites (under review). *Geochimica et Cosmochimica Acta* (2022).
- 2021 | 1. **Lampe, S.**, Le Saux, B., Vanderkelen, I. & Thiery, W. [Long-term Burned Area Reconstruction through Deep Learning](#). *ICML 2021 Workshop on Tackling Climate Change with Machine Learning* (July 23, 2021).