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Driving licence: European B  
Resident of Finland – living permanently in Ekenäs/Tammisaari  
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Geographer specialised in geoinformatics and remote sensing; and in ecology and environment conservation and assessment. I am versatile and flexible, capable of navigating a wide range of disciplines to overview all the intertwined components of a project. I am highly motivated to work on local, sustainable, and meaningful environmental projects, building resilient economy.

## **Professional background and associated experiences/skills**

-  Project leader for the Spatial Competence Centre at Novia University of Applied Sciences and team leader for the [Geospatial Systems](#) team  
Since August 2023
  - SCC (<https://www.novia.fi/scc/>)
    - Deep learning, FNN, CNN and RNN object detection, predictive modelling: notion using PyTorch and GeoPandas hosted by LUMI super computer via CSC training
    - Drone pilot: DFJI Fly, MapsMadeEasy, WebODM
    - Promoting spatial literacy with [GeoDAY event](#) (2025)
  - Project support services (<https://www.novia.fi/en/rdi/our-projects/>)
    - Impact assessment and environmental mapping for Raseborg Stad Energy Master plan
    - Field planning and design for the Släberget Naturstig project
    - Mapping and design for Agroforestry in Nyland project
    - Spatial analysis and webmapping for Carbon Neutral Experience CNE2.0 project
    - Spatial analysis and environmental monitoring for Case Västerby project
    - Marine spatial planning
    - Habitat modelling for Red-Throated Divers project
    - Evaluation of environmental impact assessments related to renewable energy facilities in collaboration with Scotland
  - Project management
    - International project management
    - Project proposal leading or partnering for Horizon Europe, European Agricultural Fund for Rural Development, Svenska tekniska vetenskapsakademien i Finland, Foundation for Municipal Development (KAKS)
  - Education
    - 5 credits Introduction to GIS for bioeconomy course lecturer
    - 5 credits GIS app course lecturer
    - Technical support for Marine Spatial Planning course in Zanzibar (Tanzania)
    - Co-supervisor for BSc and MSc theses
  - Hub contact for A Sustainable Tomorrow International broadcast (2024)
-  Sole owner at Terrae Geomatics Environmental Services (Finland)  
Since Jan 2023
-  Geomatics Analyst and Cartograph Professional at Pesca Environnement (Canada)  
From May 2022 to August 2023
  - Canadian Wind Farm and Solar Farm feasibility and impact statement (ArcGIS, Global Mapper)
    - Address environmental issues to lower impact, ensure compliance to acts and regulations and advise towards sustainable and renewable outcomes
  - Spatial constraints analysis of deforestation, wetland loss, landscape, sound, visibility, and related statistics

- Ecological characterization
- Wildlife monitoring (birds and bats) through online maps survey and forms for field missions (ArcGIS Online, Survey 123)
- Regulatory statement interpretation from land use planning program, cadastral plan, zone restrictions
- Wetland classification (ArcGIS)
  - Photo interpretation from remotely sensed data (satellite, plane, drone)
  - Photogrammetry and spatial analysis
- Wetland and bodies of water conservation (ArcGIS)
  - Environmental components cartography and descriptive statistics
  - Classification of bodies of water and wetlands according to federal, regional, municipal, and local regulations
  - Production of geodatabase and relational databases
- Local circular economy event (ArcGIS)
  - Creation of site map
- Internal service development (Cloud Compare, Q-GIS, Web ODM)
  - Drone capacity to map project area, photogrammetric and point cloud 3-D visualisation and analysis
  - Transition to SQL/Postgres geomatics department

 Senior Scientific Project Coordinator at Parenty Reitmeier Translation Services (Canada)  
2015 – 2019

- Quality control for translation of scientific and environmental publications such as the Canada's Arctic Marine Atlas from Oceans North, the Pan-Canadian Framework on Clean Growth and Climate Change from Environment and Climate Change Canada, technical sheets, and environmental guidelines for the Canadian Council of Ministers of the Environment; and participated as actor to public hearing for the Winnipeg Public Markets Olexa Developments.

 European Project Coordinator at Noel Communications (Denmark)  
 GIS/RS consultant at COWI, LE34, Favrskov Kommune, Informi (Denmark)  
2014 – 2015

 Project Coordinator at Parenty Reitmeier Translation Services (Canada)  
2011 – 2014

 Junior and team leader at Remote Sensing and Image Processing (SDI/IP) Department (National Geographic Institute, Belgium)  
2009 – 2011

MGCP ([https://www.researchgate.net/publication/321700982\\_Multinational\\_geospatial\\_co-production\\_program\\_MGCP](https://www.researchgate.net/publication/321700982_Multinational_geospatial_co-production_program_MGCP))

- Quality control for photointerpretation of land use components
- Team leading of 4 cartographers in a military environment

 Research Fellow and project leader at Research Department in Basic and Applied Geography (SEGEFA, Belgium)  
2008 – 2009

- Urban spatial planning for a gas station in Natura 2000 area in Francorchamps, Belgium
- Redesign of urban boulevard in Neupré, Belgium

## Educational background and associated experiences/skills

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-  Master of Science in Environment and Geography degree at the Faculty of Environment, Earth, and Resources in collaboration with the Freshwater Institute (Department of Fisheries and Oceans).  
Sept. 2019 to May 2022 – *University of Manitoba (Canada)* Distinction  
Research thesis: Beluga whale habitat selection and distribution in the Mackenzie Estuary and Tarium Niriyutait Marine Protected Area (<http://hdl.handle.net/1993/36438>)
  - Understanding of ecosystems
  - Habitat suitability and species distribution modelling (R, Q-GIS, Erdas Imagine, SeaDAS 7.5, Acolite, GitHub) via traditional machine learning
    - Ocean Colour remote sensing pre-processing, analysis, and treatments
    - Wildlife monitoring through aerial survey and tagging
    - Data science analysis and interpretation
    - Best practices in local community engagement
    - Other forms of science such as citizen science and traditional and ecological knowledge
    - Public sessions and update presentations in the Northwest Territories with Inuvik Hunters and Trappers committee, Fisheries Joint Management Committee, Inuvialuit Game Council in-person before COVID, then online
    - Plain language communication through posters and video (<https://vimeo.com/666551030>, <https://vimeo.com/666549454>)
    - Scientific publication: <https://doi.org/10.1139/as-2022-0003>
  - Environmental Practices Management: AAA/PDCA EMS, ISO14001, SWOT analysis, DfE. Goal oriented: sustainability, circular economy
  - Impact/Environmental Assessment Processes: IAA 2019 (+online advanced training by the Impact Assessment Agency of Canada)
  - Familiar with qualitative research, specifically designing and conducting mixed-methods research with different knowledge systems, appreciating transdisciplinary projects
  - Research Ethics (Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans. Course on Research Ethics (TPCS 2: CORE) in January 2020)
-  Advanced master's degree/postgraduate in Natural Hazards Management  
2007 to 2008 – *University of Liège (Belgium)* (magna cum laude)  
Applied thesis: Contribution of radar interferometry in Natural Hazards Management – Case of Hanoi, Vietnam
  - Mitigation responses to human-led land subsidence
  - Field work of two times three weeks in Hanoï (Vietnam)
  - Collaboration with Vietnam Academy of Science & Technology in Hanoï (Vietnam)
  - Diachronic InSAR analysis
-  Master's degree in Geographical Sciences  
2004 to 2007 – *University of Liège (Belgium)* (cum laude)  
Applied dissertation: Multidisciplinary approach of the factors of the Figuig Palm Grove evolution to assess desertification measure
  - Disaster mitigation\vulnerability assessment
  - Field work of three weeks in Figuig (Morocco)
  - Collaboration with Université Mohammed Premier in Oujda (Morocco) and local actors of the palm grove
  - Spectral signature and automatic classification of optical remote sensing imagery
-  Bachelor's degree in Geological Sciences  
2002 to 2004 – *University of Liège (Belgium)* (cum laude)
  - Pedology, crystallography, paleontology

## Other skills

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### Social skills

- hex\_ma Conduct meaningful and constructive sharing of information between different stakeholders (systems of knowledge, cultures, languages)
- hex\_ma Write clearly, speak effectively and listen attentively
- hex\_ma Cooperative: Work well with others either in leading group or training/mentoring

### Personal traits

- hex\_ma Goal-oriented, open-minded, respect rules, organized
- hex\_ma Patient and self-confident
- hex\_ma Learn fast new software/techniques
- hex\_ma Adapt to new environment, work in remote locations

### Languages

- hex\_ma French: Mother tongue
- hex\_ma English: Fluent
- hex\_ma R and R Markdown, Swedish: Intermediate
- hex\_ma Italian, Danish, Dutch, Finnish Basic

### Funding success

- hex\_ma 2021-2022: Northern Scientific Training Program funding
- hex\_ma 2019-2021: Arctic Net “Knowledge co-production on Beluga movement ecology in the Eastern Beaufort Sea” funding
- hex\_ma 2019-2020: Oakes-Riewe Award recipient
- hex\_ma 2019-2020: University of Manitoba Employees Scholarship recipient
- hex\_ma 2019-2021: Canada Student Grant and Manitoba Bursary recipient
- hex\_ma 2006-2007: Commission Universitaire pour le développement bursary recipient
- hex\_ma 2007-2008: Fondation Alice Seghers bursary recipient

## Additional information

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- hex\_ma Interests in outdoors, travelling, multicultural meetings, cycling, sailing (CANSail level 2), camping and swimming
- hex\_ma Member of European Geosciences Union (EGU), Geographical Society of Finland
- hex\_ma <https://github.com/AurelieNoel/> and Novia\_SCC
- hex\_ma Orcid ID# 0000-0002-5384-6398
- hex\_ma References:
  - o Marianne Fred : Head of research at Novia University of Applied Sciences  
[marianne.fred@novia.fi](mailto:marianne.fred@novia.fi)
  - o Alexandre Borduas: former colleague at Pesca Environnement, Canada  
[alexandre.borduas93@gmail.com](mailto:alexandre.borduas93@gmail.com)