Samuel Bosch

Scientific Assistant and Software Developer

Gent Area, Belgium | Information Technology and Services

Current	Phycology research group, Biology department, Ghent University, VLIZ - Flanders Marine Institute
Previous	Wolters Kluwer Financial Services, CEVI, Geo Solutions
Education	Ghent University

Background

Experience

PhD Candidate
Phycology research group, Biology department, Ghent University
April 2013 – Present (3 years 9 months) | Ghent, Belgium

Mapping and species distribution modeling of introduced seaweed species in Europe for the INVASIVES project (SEAS-ERA).
Development of a marine benchmark dataset for species distribution modeling (MarineSPEED).

Scientific Assistant
VLIZ - Flanders Marine Institute
April 2013 – Present (3 years 9 months)

Creating and implementing automated quality control procedures for the OBIS database.
Setting up and tuning infrastructure for automated species distribution modeling of species distribution records in the OBIS database.
Development of a raster database and an R package with environmental data.

Software developer
Wolters Kluwer Financial Services
March 2011 – April 2013 (2 years 2 months) | Merelbeke ,Belgium

Full stack web development in ASP.NET.

Software developer (GIS)
CEVI
February 2010 – February 2011 (1 year 1 month) | Ghent, Belgium

Web development in Flex and Silverlight in combination with ArcGIS Server and creating ArcGIS Desktop extensions in .NET (WPF).

Geo IT consultant
Geo Solutions
September 2006 – January 2010 (3 years 5 months) | Antwerp Area, Belgium

Development of extensions for ArcGIS Desktop, websites with ArcGIS Server, data loading with Python, data entry forms linked to MapInfo and many more.

Courses

Independent Coursework

- Machine Learning (Coursera)
- Statistical Learning (Stanford Online)
- Functional Programming Principles in Scala (Coursera)
- Computing for Data Analysis (Coursera)
- Coding the Matrix (Coursera)
- Networked Life (Coursera)

Phycology research group, Biology department, Ghent University

- Introduction to Bayesian Statistics
- Intelligent Systems
- Leadership Foundation
- Writer development
- Authentic networking
- Plunge in your own business plan (summer school)

Wolters Kluwer Financial Services

• Test driven development

🌐 Languages

Dutch   **English**

French

📐 Skills

Top Skills

| GIS | .NET | Databases | R | ASP.NET | Python | Machine Learning | Web Services | ArcGIS | ArcGIS Server |

Samuel also knows about...

| JavaScript | C# | Silverlight | Visual Studio | ArcGIS Desktop | WPF | HTML | Web Development | SQL | XML | Scrum |
| ASP.NET MVC | Microsoft SQL Server | PostgreSQL | PostGIS |

🎓 Education

Ghent University
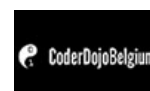Master, Geography
2002 – 2006

✋ Volunteer Experience & Causes

Coach
CoderDojo Belgium
October 2015 | Science and Technology

Helping kids learn programming skills by introducing them to Scratch and Java.

Web developer/designer/...
On The Web
May 2010 – Present (6 years 8 months) | Science and Technology

Making simple websites for family and friends.

📚 Publications

Fishing for data and sorting the catch: assessing the data quality, completeness and fitness for use of data in marine biogeographic databases
Database, Oxford Journals
December 8, 2014

Being able to assess the quality and level of completeness of data has become indispensable in marine biodiversity research, especially when dealing with large databases that typically compile data from a variety of sources. Very few integrated databases offer quality flags on the level of the individual record, making it hard for users to easily extract the data that are fit for their specific... **more**

🏅 Honors & Awards