LIVIA L. JAKOB

GEOGRAPHICAL INFORMATION SCIENTIST

CONTACT

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PROFILE

Highly talented Geographical Information Scientist with very strong technical background. Specialised in programming, web-programming, data visualisation, mapping and spatial analysis.

Independent self-starter and thrives in team settings. Creative problem solving with ability to independently learn and expand skills.

TECHNICAL SKILLS

General Programming:
  • Python3
  • Java
Web-programming:
  • jQuery /AJAX
  • Flask, RESTful APIs
  • JSON & GeoJSON
Webmapping:
  • Leaflet
  • OpenLayers
Databases:
  • SQLAlchemy (ORM in python)
  • Oracle, Oracle Spatial
  • SQLite
GIS Software:
  • ArcGIS 10 (inc. ArcPy)
  • ArcGIS online (inc. StoryMaps)
  • GDAL utilities and python API
Statistics:
  • R-Studio
  • Stata

EDUCATION

MASTER OF SCIENCE, GEOGRAPHICAL INFORMATION SCIENCE

University of Edinburgh, Scotland | 2017 - 2018

Highly regarded GIS programme, developing strong practical skills with fundamental theoretical knowledge to support the application of GIS skills in any software environment.
Development of a wide variety of knowledge, in areas such as spatial algorithms, web mapping, advanced spatial analysis and geovisualisation.

Subjects Covered:
• Advanced Spatial Databases
• Object Oriented Programming – Spatial Algorithms
• Visual Analytics
• Spatial Modelling and Analysis
• Technological Infrastructures for GIS
• Research Practice and Project Managing
• Remote Sensing

Disseration: Building a visual data sharing web platform for a research group

BACHELOR OF SCIENCE, GEOGRAPHY & COMPUTER SCIENCE

University of Bern, Switzerland | 2013 - 2017

Grade 5.73/6 (first class honours)

Subjects Covered:
• Computer Science:
    Object Oriented Programming, Databases, Human Computer Interaction, Technical Computer Science
• Physical Geography:
    Soil Science, Paleo, Hydrology, Geomorphology, Climatology
• Human Geography:
    Economic Geography, Globalisation, Urban Planning, Resilience
• Integrative Geography:
    Sustainable Use of Natural Resources, Regional Development
• Other Subjects:
    Quantitative Methods, Statistics, Mathematics, Qualitative Methods, Scientific Writing

Dissertation: Inequality in access to tertiary education – Evidence from El Salvador

AWARDS & HONOURS

Winner of the 2018 Esri Story Map contest in the category culture, history and events

Enrollment in the Swiss Olympic Talent Development Programme with Sport Climbing (2009 – 2012)

LANGUAGES

German: native
English: fluent
Spanish: good working
  knowledge
French: good working
  knowledge

FREE TIME

• Bouldering and Rock Climbing
• Drawing
• Mountaineering
• Photography

REFERENCES

Provided upon request

EXPERIENCE

CO-FOUNDER OF THE ASSOCIATION, PUBLIC RELATIONS AND IT (ON VOLUNTARY BASIS)

Consciente El Salvador, Switzerland | 2013 - now

Consciente El Salvador (Switzerland) is an association supporting "Fundación Consciente" in El Salvador. The project was established by my sister and I in 2012 and has been highly successful since.
Consciente focuses on improving the access and quality of education. The projects are based upon evaluational research in collaboration with the University of Bern.

Key Responsibilities and Projects:
• Project applications and fundraising
• IT, webdesign and webprogramming
• Responsible for public relations
• Research project about inequalities in access to tertiary education in El Salvador
• Several visits of the projects in El Salvador
• Creation and elaboration of a cooperative design

RESEARCH ASSISTANT – ECONOMIC GEOGRAPHY

University of Bern, Switzerland | 2015 - 2017

Assistance of the Group of Economic Geography's (Institute of Geography) teaching and research activities;

Key Responsibilities and Projects:
• Development and implementation of a complex firm database
• Responsible for group's webpresence and IT support
• Responsible for a web-based data visualisation project of the life sciences industry in Basel
• Assistance of a large survey project, contact with CEO's of swiss firms
• Literature and data research

DONATION ADMINISTRATION

FAIRMED, Switzerland | 2014 - 2015

I assisted FAIRMED – an NGO based in Bern promoting health projects in Africa – in their administrative tasks.

Key Responsibilities:
• Work with complex database system dware.SPO
• Correspondence with external fundraising company
• Administration of new members
• Error detection whithin the software system