IVANN SCHLOSSER

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WORK

Environmental Change Institute, University of Oxford. Research Associate in Geospatial data analytics (June 2024 - now)

- Global scale data analytics for infrastructure management and natural disaster risk modelling

Centre for Advanced Spatial Analysis, UCL, London. *Research Assistant in Geospatial analytics* *(*Jan 2022-Sep 2023)

- Extracted and engineered data from open sources: OrdnanceSurvey, OSM, UKDataService
- Implemented a large-scale network and routing model using R/C++
- Developed open-source high performance code in R/C++ for predictive modelling of transport flows
- Built a deep learning model in pytorch predicting land use classifications on satellite/raster data
- Co-responsible for visualisation, reporting, summary statistics
- Presented at conference: [FOSS4GUK](#);
- Co-authored a research [publication: Activel travel modelling](#)

Global Institute for Innovation Districts (GIID), London. *Consultant (*March 2020 -June 2020)

- Developed a scalable and reproducible methodology for measuring footfall in areas of interest
- Produced a report and visualisations on the method and findings for stakeholders

EPFL, Lausanne, Switzerland. *Tutoring for physics students (*Sep 2017-Dec 2018)

- Helped several cohorts of students (+100) with advanced course material in physics

Technical Stack: Advanced Python, R, PostGIS, latex; Intermediate C++, SQL, git, JavaScript, HTML/CSS, Microsoft Office; Notions in PowerBI, Tableau

EDUCATION

MSc Smart Cities & Urban Analytics (with merit), **UCL**, UK (Sep 2019 - Aug 2021)

- [Dissertation](#)(distinction): *Deconstructing neighbourhoods: identifying London neighbourhoods based on mobility data and diversity of amenities.* Supervisor: Prof. Elsa Arcaute
- [GIS coursework](#)(distinction): *Waste management in England: waste movement in the context of circular economy.*
- [ARTVIZ](#): An interactive web-app to engage with the art collection of MOMA through time, colour and more.

BSc in Physics, **Ecole Polytechnique Federale de Lausanne**, Switzerland (Sep 2015-Feb 2019)

- Notable courses: Calculus, Linear Algebra, Computational physics, Statistical physics, Object oriented programming (C++)

Foundation year in mathematics (CMS), **EPFL***. Lausanne, Switzerland (*Sep 2014-June 2015*)*

Languages: native French and Russian, professional English, conversational Italian

Hobbys: Tennis, Mountain skiing, drums, photography