Olena Thomson

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Portfolio: https://olenathomson.netlify.app/ and https://github.com/elenathomson

Result-driven and adaptable data analyst with three years' experience in health data and 10+ years' experience in environmental research and engineering. Proven success in project execution and delivering results. Experience working in private and public sectors and in different countries (the UK, Switzerland and Ukraine).

Key competencies

- R programming
- Analytics and Reporting
- Communication
- SQL & Microsoft SQL Server
- Statistical modelling
- Tidyverse&ggplot2
- Data analysis & visualisation
- Requirements gathering
- Environmental sciences

Experience/Career History

Real World Data Analyst (January 2022 – January 2024)	**Cegedim Health Data UK**, London, UK. Leveraging **health data** using **analytics, statistical modelling, R and SQL programming** to turn **RWD into actionable insights** and improve patient outcomes. Feasibility study using **health informatics standards** and terminologies (Read codes, ICD10, ATC codes). Cleaning and preparation of **extracts from large-sized real-world healthcare databases**. **Analytics and dashboard** creation from primary care datasets (ggplot2, Excel, PowerBI). **Communication** with internal and external stakeholders to understand **needs** for analysis. **Statistical analysis** on real-world data as specified in project proposals. Improvement of **operational efficiencies** of workflows, including writing of **internal guidance documents** (SOPs and quality management documents).
Career break for maternity leave (November 2019 – December 2021)	Became a mum of a lovely little person. Improved my **time management** and persuasion skills. Became a member of the Royal Society of Chemistry and updated my skills in **R programming, SQL and Tableau**.
Data Analyst (March 2019 – September 2019)	**SIB Swiss Institute of Bioinformatics,** Bioinformatics Core Facility (BCF), University of Lausanne, Lausanne, Switzerland. Working on a project about the analysis of data that quantify the presence of immunoglobulins specific for a large set of human proteins (so called auto-antibodies) in the blood of 50 patients enrolled in a clinical trial. The main objective was to **analyse the correlation of auto-antibodies to clinical variables**. • **Statistical analyses** (t-test, Wilcox rank test, FDR adjustment, paired boxplot etc.) using the **R programming** language; • Adaptation of existing code and **writing** well documented **new scripts**; • Data wrangling (preparation and filtering) to obtain a data matrix suited for analysis; • **Visualisation** and **graphical representation** of datasets; • **Writing reports** and producing tables and figures describing the analysis; • **Presenting** and **discussing results** with domain specialists.

Lecturer (November 2018 – February 2019) **Assistant Researcher** (September 2013 – August 2018)	**University of Geneva**, Department F.-A. Forel for environmental and aquatic sciences, Geneva, Switzerland. • **Delivering lectures to master students** about "Environmental chemistry and biogeochemical cycles of elements" (in French). **Setting exam questions and marking students' papers.** Working on a project to analyse the fate and transformation of micro- and nanoparticles in aquatic environments. This project was a part of **FP7 European Union NanoMILE Project.** • **Nano-/micro-particle analysis** (size/surface charge measurements, physicochemical characterisation); • **Data analysis, visualisation** and **interpretation** of experimental results; • **Publication and presentation of results** to the scientific community; • **Training users** on lab equipment and training **bachelor** and **master students** (laboratory and practical field work).
Junior researcher (July 2012 – August 2013) **Engineer** (August 2006 – June 2012)	A.V. Dumansky **Institute of Colloid and Water Chemistry**, National Academy of Sciences of Ukraine (ICCWC NASU), Kyiv, Ukraine. Worked on a research project on the effect of heavy and deuterium-depleted water on water properties (molecular organisation, temperature effect etc.). • Experimental work; Developing a low angle light scattering laser device "Klaster 1 / 2"; Development of the SOP; Analysing the experimental results; Writing research reports; Training the users.

Qualification & Education

2018 **PhD in environmental sciences**, University of Geneva, Department F.-A. Forel for environmental and aquatic sciences, Geneva, Switzerland.

2018 **Complimentary certificate in applied statistics**, University of Geneva, Geneva School of Economics and Management, Geneva, Switzerland.

2006 **MSc** in applied chemistry and engineering, National Technical University of Ukraine "Kyiv Polytechnic Institute" (NTUU "KPI"), Kyiv, Ukraine.

2004 **BSc** in applied chemistry and engineering, NTUU "KPI", Kyiv, Ukraine

Teaching activities and student supervision

- Responsible for the training of Bachelor and Master students during laboratory and field practical work of the Earth and Environmental Sciences section at the University of Geneva. Co-supervision of Master students during their traineeship.
- Full **list of publications** (21 publications under my maiden name Oriekhova, including conference proceedings and a patent) is available upon request.

Reviewing activity

Reviewer of articles in Science of the Total Environment and Journal of Hazardous Materials.

Other Skills

- MS Office, **R programming, Statistical modelling**, **SQL**, **Power BI**, Tableau, Origin, Linux, Stella and MINTEQA2.
- Native languages **Ukrainian and Russian**, professional working proficiency in **English** and **French** (C1), **basic German** (A2).
- Full clean UK driving licence.