Olena Thomson

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Result-driven and adaptable data analyst with two 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 leading scientific institutions in Switzerland and Ukraine in multidisciplinary teams.

Key competencies

- R programming
- Analytics and Reporting
- Communication

- SQL & Microsoft SQL Server
- Statistical modelling
- Tidyverse&ggplot2

- Data analysis & visualisation
- Research
- Environmental sciences

Experience/Career History

Real World Data Analyst (January 2022 – present)	**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's outcome. 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. **Statistical analysis** on real-world data as specified in project proposal. 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 big datasets (matrix with 300'000 data points); ●**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**, **Tableau**, Origin, SigmaPlot**,** 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.