

# Veronika Romero

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## Professional Summary

Scientist with 15+ years in biomedical research passionate about data analysis and visualization of complex datasets. Problem-solver who can bridge disciplines, engage with colleagues from diverse backgrounds, and optimize workflows.

## Education

**PhD** analogue in Pathophysiology

Bogomoletz Institute of Physiology, Kyiv, Ukraine — 2011-2015

**Doctor of Medicine** in General Medicine

Bogomolets National Medical University, Kyiv, Ukraine — 2005-2011

*Biostatistics | Medical informatics | Epidemiology | Social medicine, healthcare organization and economics*

## Professional Experience

**University of Utah, Salt Lake City, UT**

**Research Scientist / Laboratory Manager**

*September 2023 – October 2024*

- Analyzed genomic datasets (single-cell and bulk RNA-seq) aimed to establish future research directions.
- Developed R scripts and reporting workflows for reproducible ETL, analysis and visualizations of the data.

**Senior Laboratory Specialist / Laboratory Manager**

*March 2021 – September 2023*

- Established and implemented diverse workflows for laboratory procedures and data analysis.

**Research Fellow**

*July 2018 – June 2020*

- Collected, analyzed, and presented data for a research project studying rare cases of microcephaly.

**Bogomoletz Institute of Physiology, Kyiv, Ukraine**

**Junior Research Fellow**

*November 2015 – August 2018*

- Collaborated with clinical researchers on the projects in the field of cardiovascular diseases.
- Contributed to experiments, analyzed and visualized data, co-authored 3 shiny apps and 2 publications.

**Graduate Research Fellow / PhD student**

*August 2011 – November 2015*

- Analyzed, visualized, and interpreted experimental data. Prepared 5 research papers.
- Taught introductory workshops on R and Python for data analysis, co-authored syllabuses and an R manual.

**Laboratory Technician**

*May 2009 – August 2011*

- Contributed to multiple projects resulting in 6 research papers and multiple abstracts.

**BioLabTech Ltd., Kyiv, Ukraine**

**Product Manager**

*December 2016 – June 2017*

- Trained and provided product support to the customers in the field of genomics and medical genetics.
- Presented to the audiences of different backgrounds ranging from 1-on-1 to hundreds of participants.

**Bogomolets National Medical University, Kyiv, Ukraine**

**Teaching Associate**

*August 2011 – October 2013*

- Taught seminars and labs to medical students, explained complex concepts at different depth levels.

## Technical Skills

- **Data Wrangling and Analysis Tools:** R, Python, SQL, SPSS, Excel
- **Data Visualization:** R (ggplot2, shiny), Python (Matplotlib, Seaborn), Tableau
- **Statistical Methods:** correlation, linear and logistic regression, Kolmogorov-Smirnov test, t-test, Wilcoxon, Mann-Whitney, Kruskal-Wallis tests, ANOVA, chi-square, Fisher's exact test, Kaplan Meier Analysis, etc
- **Machine Learning:** Dimensionality Reduction, Random Forest, Clustering, k-NN, Regression
- **Other Tools:** Quarto, MS Office, front-end web development, Adobe Photoshop & Illustrator

## Certification

- **Business Data Analytics** professional program from Utah Valley University — November 2020

## Selected workshops and conferences

- Workshops by the DELPHI Data Science Initiative at the University of Utah, Salt Lake City, UT:  
*Introduction to R Carpentries Workshop | Geographical Analysis and Visualization in R Workshop | Advanced R | Data Cleaning with R | Databases and SQL | Version Control and Collaboration with Git and GitHub | Introduction to Python for Data Analysis | Natural Language Processing with Applications to Clinical Data Science*
- (audit) Computational Genomics class (prof. Aaron Quinlan). University of Utah. 2024
- de.NBI Summer School Computational genomics and RNA Biology, Berlin, Germany, 2017
- RECOMB 2018, Research in Computational Molecular Biology, Paris, France. 2018

## References

Available upon request.