

Dmytro Kryvokhyzha, Ph.D.

Bioinformatics Scientist

15+ years of experience in bioinformatics, data science, and statistical analysis. Passionate about leveraging data-driven insights to advance medicine and improve human health.

PROFESSIONAL EXPERIENCE

Bioinformatician, Karolinska Institutet, Sweden

October 2025 – present

- Analyze large-scale short- and long-read sequencing and multi-omics data from tumor biopsies and cell-free DNA to support precision cancer medicine.
- Develop software, computational methods, and reproducible bioinformatics pipelines.

Bioinformatician & Head of the Bioinformatics Unit, Lund University Diabetes Center, Sweden

May 2020 – September 2025

- Lead and support research projects by designing and implementing bioinformatics, data science, and statistical analyses of cell lines, model organisms, and human cohorts.
- Manage the Bioinformatics Unit consisting of 7 people, including bioinformaticians, biostatisticians, system administrators, and database managers.

Postdoctoral Researcher, Uppsala University, Sweden

Project: Genomics of diet adaptation in dogs

June 2018 – August 2020

- Analyzed genomic and transcriptomic data to identify candidate genes.

Ph.D. Student, Uppsala University, Sweden

Project: Genome evolution in an allopolyploid plant species

November 2013 – April 2018

- Conducted comparative genomic and transcriptomic analyses of a hybrid polyploid species.
- Developed novel statistical indices and computational workflows for non-model organisms.

Visiting Student, Harvard University, USA

Project: Hybridization between distantly related tropical butterflies

March – July 2013

- Analyzed whole-genome patterns of divergence and admixture between species.
- Wrote a Master's thesis resulting in a publication in *Nature*.

Research Assistant, Max Planck Institute for Evolutionary Biology, Germany

Project: Gene expression in different organs of an invasive fish

September 2012 – February 2013

- Evaluated different microarray data normalization procedures with RNA-seq data.

EDUCATION

Ph.D. in Evolutionary Functional Genomics, Uppsala University, Sweden

2013 – 2018

M.Sc., Erasmus Mundus Master Program in Evolutionary Biology (Uppsala University, University of Montpellier II, Harvard University)

2011 – 2013

M.Sc. & B.Sc. in Biology, Kharkiv National University, Ukraine.

2005 – 2010



CONTACT

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SKILLS

Analyses

- WGS & Genotyping
- Bulk & scRNA-seq
- Proteomics
- Epigenomics
- Microbiome
- Multi-omics integration
- Statistical & ML modeling
- Networks & pathways
- Data visualization

Programming

- R
- Python
- Bash
- Web

Tools

- R Markdown/Jupyter
- Git
- Snakemake/Nextflow
- Conda/Docker/Singularity
- Linux/Unix

LANGUAGES

- English (fluent)
- Ukrainian (native)
- Swedish (beginner/SFI C)