Dmytro Kryvokhyzha, Ph.D.

Bioinformatics scientist

8+ years of experience. Specialist in the development of pipelines for next-generation sequencing data analyses. Driven by solving biological problems with computational tools and enjoy working with large scale data.

PROFESSIONAL EXPERIENCE

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

May 2020 – present

- Lead all aspects of bioinformatics development, implementation, and management, to support next-generation sequencing analyses in multiple research projects.
- 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 SNPs, structural variants, and RNA-Seq data.
- Integrated the results to find candidate genes underling metabolic adaptations.

Ph.D. Student, Uppsala University, Sweden

Project: Genome evolution in an allopolyploid plant species

November 2013 – April 2018

- Performed comparative genomics and population genomics analyses of a hybrid polyploid species and its parental species.
- Published 4 scientific papers.

Visiting Student, Harvard University, USA

Project: Hybridization between distantly related tropical butterflies

March – July 2013

- Analyzed whole-genome patterns of divergence between species.
- Wrote a Master's thesis.

Research Assistant, Max Plank Institute for Evol. Biol., Germany

Project: Gene expression in different organs of an invasive fish

September 2012 – February 2013

- Analyzed microarray gene expression data.
- 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

E-mail: dmytro.kryvokhyzha@evobio.eu

Web: evodify.com

GitHub: github.com/evodify

LinkedIn: linkedin.com/in/evodify

SKILLS

Analyses

- NGS data processing
- Comparative genomics
- Gene expression
- Functional genomics
- Population genetics
- Statistical analysis

Programming

- R
- Python
- Bash
- AWK

Tools

- R Markdown
- Git
- Snakemake
- Conda
- Linux

LANGUAGES

- English (fluent)
- Ukrainian (native)
- Russian (native)
- Swedish (beginner)