

Svistak Vladimir

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EDUCATION

Chemical Engineering Center, ITMO University

2023-2027

EXPERIENCE

Practice in the Laboratory of Physical Chemistry:

November 2023 – December 2024

ITMO faculty of Infochemistry

- Growing microgreens using hydroponics
- Preparation of the nutrient medium
- Dependency injection with Hilt
- Synthesis of melamine cyanurate particles
- Work in sterile conditions
- Working with a fluorescence microscope

Laboratory of Molecular Biology of Fungi:

November 2024 – January 2025

Komarov Botanical Institute

- Isolation of fungal DNA by the magnet method
- Preparation of mushroom samples for DNA isolation
- Compilation of Phylogenetic trees using the maximum likelihood method
- Alignment by various BLAST algorithms
- Working with FastQC

ML prediction of aptamer-small molecule interactions:

August 2025 – Present

ITMO faculty of Chemistry and AI

- Generation of artificial aptamers for training
- ML/AI prediction of aptamer-small molecule interactions
- Data labeling and preparation for model training

TECHNICAL SKILLS

Programming languages: Python, SQL

Frameworks and Librauries: Pandas, NumPy, Scikit-learn, Seaborn, BioPython, Matplotlib, Cv2, BeautifulSoup, requests, selenium

Dev tools: Linux, Git, Docker, Galaxy, BEDtools, Seqtools, SAMtools, FastQC

COURSES

Summer lecture on Bioinformatics from the Institute of Bioinformatics

July 2024

- * NGS sequencing and data analysis
- * Fundamentals of molecular modeling
- * Bioinformatics in oncology

School of Bioinformatics of the Center for Chemical Engineering

May 2024

- * Molecular docking
- * Alignment and sequence analysis
- * Parsing and reading information from various biological databases

PROGETS

CodonAdaptation

- * Codon optimization
- * Machine learning
- * Molecular biology

Biokhakaton 2025

- * Amyloids
- * Amino acid substitutions
- * Structural Biology