ANASTASIYA PUNKO

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Linkedin, Github

EDUCATION

HIGHER SCHOOL OF ECONOMICS, MOSCOW. MASTER'S DEGREE, 2022 – 2024.
DATA ANALYSIS IN BIOLOGY AND MEDICINE

BELARUSIAN STATE UNIVERSITY, MINSK. BACHELOR DEGREE, 2014 – 2018.
BIOLOGICAL FACULTY, SPECIALIZATION: GENETICS

EMPLOYMENT

RESEARCHER, CENTER FOR ADVANCED TECHNOLOGIES ; TASHKENT. SEP 2024 — PRESENT

Performing statistical analysis of genome wide association studies (GWAS); Used Python, bash for data preparation and GWAS software for SNP analysis; Performed design, implementation, data management, and statistical analysis of clinical research studies; Data processing and plotting using R programming language.

RESEARCHER, REPUBLICAN SPECIALIZED SCIENTIFIC AND PRACTICAL MEDICAL CENTER OF ONCOLOGY AND RADIOLOGY; TASHKENT. SEP 2024 — PRESENT

JUNIOR RESEARCHER, BELARUSIAN PEDIATRIC CENTER OF ONCOLOGY, HEMATOLOGY AND IMMUNOLOGY; MINSK. APR 2017 – SEP 2022

Performing NGS and statistically analyzing the data with bioinformatics tools; Designing experiments, collecting data, working with control sets; Diagnosis of patients by various molecular-genetic methods: chimerism; minimal residual disease; diagnostics of brain tumors using the NGS panel; Writing and reporting results.

MOLECULAR DIAGNOSTIC SPECIALIST, TOSILENA; MINSK. OCT2021 – DEC2021

CLINICAL BIOINFORMATICIAN, INDEPENDENT CLINICAL BIOINFORMATICS LABORATORY, MOSCOW. JUN 2021 – AUG 2021

RESEARCHER, MODELING & SIMULATION DECISIONS; MOSCOW. JAN 2023 – JUN 2024

Mathematical modelling of immunotherapy; Compilation of a database of published experiments; Reproduction of a mathematical model; Calibration of the model; Model simulation. Data processing and plotting using R programming language.

SKILLS

Genome wide association studies (GWAS)
Mathematical Modeling in medicine: PKPD, QSP, Monolix
R Programming, Python
Machine Learning, Dashboards and Analytical Systems Design
DNA, RNA isolation and purification
Molecular assays: dierent methods of PCR analysis; primers and TaqMan probes design
Sanger sequencing and data analysis
NGS sequencing and data analysis

LANGUAGES

Russian (native)
English (B2)