



# KATARZYNA KOLANEK

## Bioinformatics

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## EXPERIENCE

### Bioinformatics Scientist

Oct 2019 – Apr 2020

#### Intelliseq

Institute of Pharmacology, Polish Academy of Sciences /  
Krakow School of Interdisciplinary PhD Studies

#### IntelliseqFlow

„Software as a service platform for WGS or WES data analysis  
(from raw data to automatic and reports with clinical insights)”

- designing and developing the core architecture of IntelliseqFlow platform
- developing bioinformatic pipelines and tools
- supervising the implementation, reviewing code
- training and supervising interns

#### PGx+

„Development of the system for pharmacological interpretation  
of the human genome.”

- developing pharmacogenomic module for IntelliseqFlow platform

### Bioinformatician

Feb 2016 – Oct 2019

#### Intelliseq

#### GeneTraps

„Genome sequencing interpretation system dedicated to precision medicine.”

- developing bioinformatic pipelines and tools
- creating technical documentation
- conducting NGS data analyses for health-care and research institutions
- training and supervising interns

#### MOBIGEN

„Direct-to-consumer genome data service and client applications”

- developing java modules

## EDUCATION

### Master's Degree in Mathematics

2013 – 2015

Jagiellonian University

Thesis: „Application of Bernstein's inequality in learning theory”

### Bachelor's Degree in Mathematics

2009 – 2013

Jagiellonian University

## TECHNICAL SKILLS

Linux/Unix bash Python R

Java (junior) WDL + Cromwell

virtualization Docker AWS

Google Cloud git

NGS toolbox (GATK, IGV, samtools, etc.)

genomics rare diseases

NGS databases/resources

## SOFT SKILLS

- independence and resourcefulness in solving problems
- wide range of interest
- ability to cooperate with people of various backgrounds (programmers, health-care professionals, etc.)
- conscientiousness

## KEEN TO LEARN MORE

Advanced Python Machine learning

Data science

## LANGUAGES

Polish: Native | English: Fluent  
Russian: Basic

## OTHER

- represented Intelliseq at „Festival of Genomics” in London (2020)
- 2nd place with the team in bioinformatic hackathon „BioHack - Blast The System 2018”
- represented Intelliseq at „American Society of Human Genetics Annual Meeting” (ASHG) 2017

## PUBLICATIONS

#### Journal Articles

- Skoczen, S. et al. (2019). „Genetic profile and clinical implications of hepatoblastoma and neuroblastoma coexistence in a child”. In: *Frontiers in Oncology* 9:APR.