

CURRICULUM VITAE

Valentyn Bezshapkin

June 2026

A medical doctor interested in turning data into evidence towards a better understanding of disease mechanisms and improved therapy protocols.

Enthusiastic about microbiome, machine learning & multi-omics.

EDUCATION

2022 – present	PhD student in Microbiology and Immunology Program Sunagawa Lab, Institute of Microbiology ETH Zürich
2021 – 2022	PhD student in Biomedical Sciences Program Structural & Functional Genomics Lab Małopolska Centre of Biotechnology UJ
2015 – 2021	6-year Medical Degree Distinction in Human Anatomy and Physiology courses Jagiellonian University Medical College

PROFESSIONAL EXPERIENCE

October 2021 – October 2022	Physician J. Dietl Specialist Hospital, Krakow, Poland
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RESEARCH EXPERIENCE

June 2021 - December 2022	Research Fellow in SONATA BIS project Łabaj Lab, Bioinformatics Research Group, Małopolska Centre of Biotechnology, Jagiellonian University
December 2019 - September 2022	Member of Intensive Care and Perioperative Therapy Research Group Centre for Intensive Care and Perioperative Medicine JUMC
June 2020 - September 2022	Research Fellow Structural and Functional Genomics Lab, Małopolska Centre of Biotechnology, Jagiellonian University
April 2018 - February 2020	Volunteer trainer and coordinator The “Wholesome Contact” - multidisciplinary programme to prevent hospital delirium in elderly patients Department of Internal Diseases and Gerontology JUMC

TEACHING EXPERIENCE

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| 1. Fundamentals in Microbiology | Day Organiser
ETH Zürich, Switzerland
Spring Semester 2023-25 |
| 2. Machine learning in Life Sciences | Teaching Assistant
Swiss Institute of Bioinformatics,
Switzerland
December 2024 |
| 3. Microbiome module – Omics in Data Science | Teaching assistant
Interdisciplinary Centre for Mathematical
and Computational Modelling
University of Warsaw, Poland
Spring Semester 2022-24 |

VOLUNTEER EXPERIENCE

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| April 2015 - | International Federation of Medical Students' Associations |
| December 2018 | Local Coordinator on Human Rights and Peace (2016-2018) |

SKILLS

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| Programming languages: | Primary: Python
Secondary: Rust, C/C++ |
| Skills: | <ul style="list-style-type: none">- data analysis & visualization (pandas, scikit-bio, matplotlib)- machine learning & deep learning- version control & open-source development (Git)- 16s rRNA & metagenomic sequencing analysis- workflow management (WDL, snakemake)- virtualization (Docker, Singularity) |

OPEN SOURCE CONTRIBUTIONS

- Qiime2 (17,000 citations)
- MMSeqs2 (2,550 citations)

GitHub profile: <https://github.com/valentynbez>

LANGUAGES

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| Full proficiency | English, Polish, Ukrainian, Russian |
| B2 | German |