KLAVDIIA NAUMOVA

EDUCATION		GOO	
École Polytechnique Fédérale de Lausanne (EPFL) MSc in Life Sciences Engineering, Minor in Data Science - GPA - 5.2 (max. 6.0) Moscow State University (MSU) Specialist degree in Fundamental and Applied Chemistry - GPA - 5.0 (max. 5.0)			09 2021 – 07 2023 Lausanne, Switzerland
			09 2015 – 06 2021 <i>Moscow, Russia</i>
RELEVANT COURSES			
• Analysis	Machine Learning	Applied Data Analysis	Image Processing
 Linear Algebra 	 Deep Learning 	 Applied Biostatistics 	 Image Analysis and
 Probability theory and statistics 	 Optimization for Machine Learning 	 Natural Language Processing 	Pattern Recognition • Functional Programming
MASTER THESIS			
Machine Learning and Opti inDISCO: interpretable DIStrik		telligent Global Health Grou ng for biomedical images	p, EPFL 02 2023 - 07 2023
SEMESTER PROJECTS			
iGH/MLO EPFL xDISCO: eXplainable DIStributed COllaborative learning for images			09 2022 - 01 2023
MicroBioRobotic Systems I Optical Elastography Pipelin		lation	02 2022 - 06 2022
COURSE PROJECTS			
Machine learning: Detectio	n of traffic cones coordina	tes using neural networks	12 202:
Applied data analysis: Understanding vegetarianisi	m and veganism through t	the media using sentiment and	alysis 12 202 2
Deep Learning: Image denoising using Noise2Noise neural network			05 202
Natural language processi	ng: Developing language r	models for digital educational	assisting 06 2023
OTHER RESEARCH EXPERIE	ENCE		
Laboratory of Surface Phenomena in Polymer Systems Institute of Physical Chemistry and Electrochemistry Russian Academy of Science (IPCE RAS) Synthesis of silica nanocontainers for drug encapsulation			10 2015 - 06 2021
Laboratory of Biologically Active Organic Compounds, MSU Synthesis of a 2-thiohydantoin derivative for cancer treatment			10 2017 - 05 2018
CONFERENCES			
EPFL Engineering Industry Day 2023 xDISCO poster presentation			03 2023 Lausanne, Switzerland

Nanolive SADeep Quantitative Biology Intern

INTERNSHIPS iGH/MLO EPFL

Research Intern

Lausanne, Switzerland **07 2022 - 09 2022**

08 2023 - 02 2024

Tolochenaz, Switzerland

OTHER WORK EXPERIENCE

Student Assistant at the CS-433 Machine learning course (EPFL)

Student Assistant at the MATH-205 Analysis IV course (EPFL)

Laboratory Assistant (IPCE RAS)

Laboratory Technician (IPCE RAS)

09 2022 - 01 2023

02 2022 - 06 2022

07 2019 - 06 2021

06 2018 - 07 2019

TECHNICAL SKILLS

Python (PyTorch, Scikit-learn, Pandas, OpenCV), R, Scala, HTML, CSS, Git, LaTeX, VS Code, Jupyter, Fiji, Fusion360

LANGUAGES

English: advanced, IELTS 8.5

French: intermediate Russian: native

PUBLICATIONS

- 1. K.Naumova et al. / My-This-Your-That—Interpretable Identification of Systematic Bias in Federated Learning for Biomedical Images / Submitted to Nature Communications. Preprint available at https://klavdiian.github.io/
- 2. E. Ozelci et al. / Mechanical characterization of biological samples using robot-assisted optical microelastography / MARSS, July 25–29, 2022, Toronto, Canada
- 3. K. Naumova et al. // Microporous Mesoporous Mater. 2021. V. 316. P. 110911. DOI: 10.1016/j.micromeso.2021.110911
- 4. O.V. Dement'eva et al. // Colloids Surf., B. 2020. V. 185. P. 110557. DOI: 10.1016/j.colsurfb.2019.110577
- 5. K. Naumova et al. // Colloid J. 2019. V. 81. No. 4. P. 416. DOI: 10.1134/S1061933X19040094
- 6. O.V. Dement'eva et al. // Colloid J. 2017. V. 79. No. 4. P. 451. DOI: 10.1134/S1061933X17040020