KLAVDIIA NAUMOVA, MSC ■ G G G

EDUCATION		· · · · · · · · · · · · · · · · · · ·		
Swiss Federal Institute of Technology in Lausanne (EPFL) MSc in Life Sciences Engineering, Minor in Data Science - GPA - 5.2 (max. 6.0)			09 2021 – 07 2023 Lausanne, Switzerland	
Massay State University /N	4C11\		00 2015 00 2021	
Moscow State University (MSU) Specialist degree in Fundamental and Applied Chemistry - GPA - 5.0 (max. 5.0)			09 2015 - 06 2021 <i>Moscow, Russia</i>	
,		,		
• Analysis	Deep Learning	- Natural Languago	New tools & research	
Linear Algebra	Optimization for	 Natural Language Processing Image Processing Image Analysis and Pattern Recognition 	New tools & research strategies in personalized healthFunctional Programming	
Probability theory and	Machine Learning			
statistics	Applied Data Analysis			
 Machine Learning 	 Applied Biostatistics 			
MASTER THESIS				
Machine Learning and Opti inDISCO: interpretable DIStrib		_	p, EPFL 02 2023 - 07 2023	
SEMESTER PROJECTS				
iGH/MLO EPFL <i>xDISCO: eXplainable DIStribut</i>	ted COllaborative learning f	or images	09 2022 - 01 2023	
MicroBioRobotic Systems L Optical Elastography Pipeline		tion	02 2022 - 06 2022	
COURSE PROJECTS				
Machine learning: Detection	n of traffic cones coordinate	s using neural networks	12 2021	
Applied data analysis: Understanding vegetarianisn	n and veganism through the	e media using sentiment an	alysis 12 2021	
Deep Learning: Image denoising using Noise2Noise neural network			05 2022	
Natural language processin	ig: Developing language mo	odels for digital educational	assisting 06 2023	
OTHER RESEARCH EXPERIE	NCE			
Laboratory of Surface Phen Institute of Physical Chemist Russian Academy of Science Synthesis of silica nanocontai	ry and Electrochemistry (IPCE RAS)		10 2015 – 06 2021	
Laboratory of Biologically <i>A</i> Synthesis of a 2-thiohydantoi	<u> </u>	•	10 2017 - 05 2018	
CONFERENCES				

Workshop SMART-Al: Leveraging Al for Health Dec	cision Support Systems
Talk on Distributed Learning	

Lausanne, Switzerland

EPFL Engineering Industry Day 2023

03 2023

04 2024

xDISCO poster presentation

Lausanne, Switzerland

INTERNSHIPS

Research Intern

iGH/MLO EPFL

08 2023 - 02 2024

Lausanne, Switzerland

Nanolive SA

07 2022 - 09 2022

Deep Quantitative Biology Intern

Tolochenaz, Switzerland

OTHER WORK EXPERIENCE

Student Assistant at the CS-433 Machine learning course (EPFL)	09 2022 - 01 2023
Student Assistant at the MATH-205 Analysis IV course (EPFL)	02 2022 - 06 2022
Laboratory Assistant (IPCE RAS)	07 2019 - 06 2021
Laboratory Technician (IPCE RAS)	06 2018 - 07 2019

TECHNICAL SKILLS

Python (PyTorch, Pandas, OpenCV), JavaScript, TypeScript, 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 / Under review in npj Digital Medicine. Preprint available at https://www.researchsquare.com/article/rs-3910714/v1
- 2. E. Ozelci et al. / Mechanical characterization of biological samples using robot-assisted optical microelastography / MARSS, July 25–29, 2022, Toronto, Canada
- K. Naumova et al. / Mesoporous silica particles based on complex micelles of poorly water-soluble compounds. One simple step to multidrug carriers / Microporous Mesoporous Mater. 2021. V. 316. P. 110911. DOI: 10.1016/j.micromeso.2021.110911
- 4. O.V. Dement'eva et al. / Drug-templated mesoporous silica nanocontainers with extra high payload and controlled release rate / Colloids Surf., B. 2020. V. 185. P. 110557. DOI: 10.1016/j.colsurfb.2019.110577
- 5. K. Naumova et al. / Solubilization as a Method for Creating Hybrid Micellar Templates for the Synthesis of Multifunctional Mesoporous Containers / Colloid J. 2019. V. 81. No. 4. P. 416. DOI: 10.1134/S1061933X19040094
- 6. O.V. Dement'eva et al. / Sol–gel synthesis of mesostructured SiO2 containers using vesicles of hydrolyzable bioactive gemini surfactant as a template / Colloid J. 2017. V. 79. No. 4. P. 451. DOI: 10.1134/S1061933X17040020

VOLUNTEERING

Tutor at the children's intellectual creativity camp

08 2018

Saransk, Russia

08 2017

Photographer and designer at the children's intellectual creativity camp

Saransk, Russia