KLAVDIIA NAUMOVA, MSC ■ G G G

EDUCATION		<i>5</i> () 9	
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, Switzerlana
Moscow State University (M Specialist degree in Fundame	•	- GPA - 5.0 (max. 5.0)	09 2015 - 06 2021 <i>Moscow, Russia</i>
RELEVANT COURSES			
 Analysis Linear Algebra Probability theory and statistics Machine Learning MASTER THESIS	 Deep Learning Optimization for Machine Learning Applied Data Analysis Applied Biostatistics 	 Natural Language Processing Image Processing Image Analysis and Pattern Recognition 	 New tools & research strategies in personalized health Functional Programming
Machine Learning and Opti		_	ıp, EPFL 02 2023 - 07 2023
inDISCO: interpretable DIStrib	outed COllaborative learning	g for biomedical images	
SEMESTER PROJECTS			
iGH/MLO EPFL xDISCO: eXplainable DIStribut	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	of traffic cones coordinate	es 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	g: Developing language m	odels for digital educationa	l assisting 06 2023
OTHER RESEARCH EXPERIE	NCE		
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 A Synthesis of a 2-thiohydantoid	<u> </u>	·	10 2017 - 05 2018
CONFERENCES			
EPFL Engineering Industry Day 2023 xDISCO poster presentation			03 2023 Lausanne, Switzerland
INTERNSHIPS			
iGH/MLO EPFL			08 2023 - 02 2024

Nanolive SA Deep Quantitative Biology Intern

Research Intern

07 2022 - 09 2022

Tolochenaz, Switzerland

Lausanne, 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 / Under review in npj Digital Medicine. 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. / 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

Photographer and designer at the children's intellectual creativity camp

08 2017 Saransk, Russia

EXTRACURRICULAR ACTIVITIES

I enjoy jogging and dancing and strive to acquire eco-friendly practices in my daily life. Also, I am a huge fan of books on popular science and feminism.