Jaan Kolesnik

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OBJECTIVE:

Motivated and curious individual seeking R&D position in epidemiological. Interests include but not limited to: omics, protein/genetic modalities, bioengineering, biochemistry, oncology, immuno-therapies

EDUCATION

Northeastern University, Boston, MA	Expected
May 2025	_
Master of Science in Bioinformatics	GPA 4.0
Coursework: Statistics for Bioinformatics, Computational methods for Bioinformatics	
University of Massachusetts Amherst, Amherst, Massachusetts	
GPA: 3.63	

Bachelor of Science in Biomedical EngineeringGraduatedAug/2022Coursework: UG Systems Biology, Programming for electrical and computer engineering, Statistics, DifferentialEquations, Multivariate calculus, Bioengineering, Chemical Biology, Biochemistry

RELAVANT SKILLS –

Programming Languages: R, Python, Bash Shell Bioinformatics Tools: BLAST, bedtools, SAMtools, Tophat, Bioconductor
Databases: SQLite, NCBI
Laboratory Techniques: Mammalian Cell Culture, Gel electrophoresis, PCR, DNA and RNA purification, western blotting, ELISA, UV spectrometry, LC mass spectrometry, immunostating, qPCR/RT-PCR, Protein Purifacation
Operating Systems: Linux, Windows

ACADEMIC PROJECTS

KAGE Genotyping Reproducibility Project, Northeastern University

Sept/2023 - Dec/2023

- Researched Genotyping papers, and reproduced our own genotyper for DNA indexing
- Analyzed human genomic NGS data for genotyping data to find significant variants
- Created a presentation in a group to present our work

Organoid fusion device, University of Massachusetts Amherst May/2022

• Developed a device that can combine 2 or more spheroids into a single cellular assembloid for researchers who are currently using inefficient methods for making assembloids

• Utilized fusion360 to design and 3D print device using resin

WORK EXPERIENCE

Manufacturing Associate-ModernaTX, Burlington, Massachusetts

- Feb/2023

• Manufactured LNPs and DNA plasmids into large scale vaccine batches to be used in clinical trials according to SOP's

• Routinely Sampled batches, Took inventory, Operated, calibrated, and cleaned machinery according to GMP standards for production.

• Completed documentation according to GMP standards to become cGMP compliant

Intern-Himalaya Drug Company, Bengalaru, India

June/2019 - Sept/2019

• Examined blood plasma samples to observe the effect of drug cocktail mixtures on blood plasma samples using LC mass spectrometry, Gel-Electrophoresis, and NGS to check for toxic bi-products.

• Conducted Quantitative Analyses of previously done experiments to obtain evidence of biocompatibility.

Sept/2021 -

Sept/2022