Elena Koslov

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Education

University of Washington Seattle, WA
Bachelor of Science in Bioengineering Aug 2023 – May 2027
Relevant Coursework: Biomechanics, Tissue Engineering, Molecular Biology, Nanotechnology, Bioinformatics, Medical Device Design

GPA: 3.86/4.0

Technical Skills

Languages and Tools: Python, R, MATLAB, SolidWorks, Simulink, ImageJ **Platforms:** Jupyter, Git, AWS, Conda, Tableau

Projects

Personalized Cancer Therapeutic Platform | *Python, Machine Learning*

- Developed machine learning model for personalized cancer treatment prediction
- Analyzed genomic data to identify targeted therapeutic strategies
- Achieved 87% accuracy in treatment response classification

Wearable Biosensor for Continuous Health Monitoring | *SolidWorks, Python*

- Designed miniaturized biosensor for real-time physiological parameter tracking
- Implemented signal processing algorithms for data interpretation
- Created 3D-printed prototype with improved ergonomic design

Regenerative Medicine Cell Culture Platform | *MATLAB, Tissue Engineering*

- Engineered advanced cell culture system for tissue regeneration
- Developed computational models for optimal growth conditions
- Collaborated with medical research team on stem cell differentiation

Research Experience

Bioengineering Research Assistant Jun 2022 – Aug 2023
Fred Hutchinson Cancer Research Center *Seattle, WA*

- Investigated novel approaches for targeted cancer therapies
- Conducted advanced molecular biology and genomic analysis
- Presented research findings at national biotechnology symposium

Work Experience

Biomedical Engineering Intern May 2023 – Aug 2023
Illumina *San Diego, CA*

- Supported development of next-generation sequencing technologies
- Performed data analysis for genomic research projects
- Assisted in validation of novel genetic screening methodologies

Research Intern Jun 2022 – Aug 2022
Seattle Children's Research Institute *Seattle, WA*

- Supported pediatric medical research initiatives
- Conducted laboratory experiments in molecular genetics
- Assisted in data collection and analysis for research publications