# Ekaterina Deyneka

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## EDUCATION

**University of California, Irvine (UCI)**                                Sep. 2020 – Jul. 2025
Graduate Program in Computer Science                                                Irvine, CA
Average grade: 4.0/4.0

**Delft University of Technology (TU Delft)**                            Sep. 2018 – Jul. 2020
Masters's Program in Nanobiology, Joint Degree with Erasmus Medical Center      Delft, Netherlands
Average grade: 8.2/10.0

**Moscow Institute of Physics and Technology (MIPT), State University**   Sep. 2014 – Jul. 2018
Bachelor's Program in Applied Mathematics and Physics                          Moscow, Russia
Average grade: 4.8/5.0; top 1% of the department

## WORKING EXPERIENCE

**Software Engineering Intern at Snap Inc.**                            Jun. 2021 – Sept. 2021
Machine Learning Team                                                          Santa Monica, CA
- Denoising diffusion models application to solve a number of computer vision tasks: inpainting, adding noise and texture to synthetic data, adding noise and glare to assets

## RESEARCH EXPERIENCE

**Graduate Student Researcher**                                          June 2020 – Present
Pierre Baldi's Group, Donald Bren School of Information and Computer Sciences, UCI     Irvine, CA
- Neural networks to recover colors of the images taken in the infrared spectrum
- Development of bioinformatics pipelines and tools for CircadiOmics

**Master Student Researcher**                                           Sep. 2018 – Jul. 2020
Pattern Recognition and Bioinformatics Lab, TU Delft                           Delft, Netherlands
- *De novo* genome assembly using long and short reads
- Phylogenetic and variability analysis of proteins
- Close interaction and collaboration with microbiologists, discussion of biological insights and presenting the results
- Organizing a research agenda and managing fellows

## QUALIFICATIONS & SKILLS

**Languages**: Python (numpy, sklearn, scipy, pandas, pytorch, tensorflow, keras, biopython, matplotlib, pyplot), Bash
**General**: High performance computing cluster, AWS, LaTeX

## PUBLICATIONS

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|---|---|
| 2021 | **"Deep Learning to Enable Color Vision in the Dark**, first author<br>In progress |
| 2020 | **"Comprehensive characterization of PE/PPE protein encoding genes in *M. tuberculosis* lineages through high-quality genome assemblies"**, first author<br>In progress |
| 2020 | **"Complete genome sequence of *Ralstonia pickettii* type strain DSM 6297 (ATCC 27511, NCTC 11149, K-288, NBRC 102503) and its conjugative plasmid determined by third-generation sequencing."**, first author<br>In progress |

## SCHOLARSHIPS & AWARDS

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|---|---|
| 2020 | The Donald Bren School of Information and Computer Sciences Dean's Award (10,000$) |
| 2019 | The Next Generation Women Leaders award towards research, *McKinsey & Company* (2,000€) |
| 2018–2020 | Orange Tulip Scholarship for Master Program in Nanobiology (51,790€) |