

Internship Proposition
(one page max)
Master 2 GP Immunology & ImmunIntervention (I³)
2024-2025



Lab: Gumus Lab

Team:

Name and position of the PI: Zeynep H Gumus, PhD. Associate Professor

Email of the PI: Zeynep.gumus@mssm.edu

Candidate (if internship filled):

Title of the internship: Computational genomics

Summary of the internship proposal:

We are a computational cancer genomics lab that develops and applies methods and tools to identify genetic drivers of cancer risk, progression and therapy response. To understand such genetic factors, we need to find new routes to analyze, integrate and explore diverse, massive and heterogeneous genomics datasets. Towards this goal, we utilize genomic epidemiology, computational genomics, computational immunology and ultrafast computing. Currently, we have two separate projects in the lab that an intern can learn from and contribute to. The first is on the study of host immune and genetic factors that drive cancer risk through the use of computational genomics workflows. The second is on the development of an interactive interface we are currently working on to better visually explore multiomics cancer immunotherapy clinical trial datasets.

For details, please visit our website at: <https://gumuslab.github.io/>

Option(s) linked to the project:

- Clinical Research Profile
- Data Analyst Profile
- Experimental Biology Profile