WHY GPS?

- A decade in online expertise
- Brandeis standards of excellence
- Convenient, flexible, fully online
- Seminar-style classes
- Average class size of 12
- Faculty from industry
- Professional connections
- One-on-one advising

WHY THIS PROGRAM?

Advance scientific research by mining and analyzing data.

Developed with industry experts, this STEM-designated program will equip you to:

✓ Process, store, analyze and model large volumes of biological data from multiple sources.

✓ Independently provide insights into complex biological systems through data synthesis and application of a wide range of computational biology approaches.

✓ Effectively communicate and present bioinformatics analyses to multidisciplinary project teams.

REQUIRED COURSES:

- Bioinformatics Scripting and Databases with Python
- Molecular Biology, Genetics, and Disease
- Biological Sequence Analysis
- Biomedical Statistics with R
- Mathematical Modeling for Bioinformatics
- Molecular Profiling and Biomarker Discovery

SAMPLE ELECTIVES (SELECT 4):

- Structural Bioinformatics
- Drug Discovery and Development
- Computational Systems Biology
- Cheminformatics
- Statistical Genetics

“I have become a more well-rounded bioinformatician with exposure to other areas of the field. I learned to challenge myself to produce better code and present and communicate more effectively.”

— Kristina, MS in Bioinformatics 2018 Graduate

www.brandeis.edu/gps  |  gpsonline@brandeis.edu  |  781-536-7363