WHY GPS?

- 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
- Finish in 18 months

WHY THIS PROGRAM?

Advance scientific research by mining and analyzing data.

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

- Apply methods of statistical genetics to detect disease in experimental and human populations.
- Develop bioinformatics tools through modeling, prediction and optimization.
- Develop scripts and programs to manipulate data and solve bioinformatics problems.

REQUIRED COURSES:

- Bioinformatics Scripting and Python Programming
- Molecular Biology, Genetics and Disease
- Biological Sequence Analysis
- R for Biomedical Informatics
- 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

“Why GPS?”

“What I learned at Brandeis GPS was immediately applicable, and I continue to benefit every day from the understanding the courses gave me.”

— Scott Paddock, GPS Student

2018-2019 Academic Year

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