WHY GPS?

• Brandeis standard 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 as little as 18 months

WHY THIS PROGRAM?

Advance scientific research by mining and analyzing data.

Developed with industry experts, this 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

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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

2017-2018 Academic Year

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