RECRUIT BETTER.
At the School of Engineering and Applied Science (SEAS), we strive to provide students with valuable resources and access to academic, corporate, non-profit, government, and professional development opportunities. By connecting students, faculty, staff, alumni, and employers, we create a talent pipeline that highlights GW graduates as leading contributors to the global community.

HIRE BETTER.
Data Analytics is the study and usage of big data. Big data is increasingly being used to track, analyze, and inform major decisions for policy, business, and other organizational needs. According to a study by the McKinsey Global Institute, the U.S. will soon face a shortage of data scientists, managers, and analysts who can understand and make decisions using big data. As the demand for professionals well-versed in data interpretation grows, the opportunities to start a career in big data can begin with the right education that covers the fundamentals of computer science and data analysis, and enhanced by engineering principles and data management. Data is no longer limited to tech companies and statistical organizations—it can be applied to virtually any sector, making a well-rounded education in data analytics essential to one’s professional success.

ENGINEER BETTER.
At SEAS, our students pride themselves on developing cutting-edge research and innovation both in and out of the classroom. Through its institutes, centers, and special programs, SEAS extends academic investigation throughout the greater GW campus, professional industry, and society as a whole. By fostering an environment in which students apply technology and research findings to all areas of instruction, students are well prepared for rewarding and productive careers as engineers, applied scientists, and computer scientists.

DATA ANALYTICS STUDENT PROFILE

<table>
<thead>
<tr>
<th>COURSEWORK TAKEN</th>
<th>NUMBER OF ENROLLED GRADUATE STUDENTS: 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Probability for Computer Science</td>
<td>Capstone Project</td>
</tr>
<tr>
<td>Database Management Systems</td>
<td>Introduction to Big Data and Analytics</td>
</tr>
<tr>
<td>Programming for Analytics</td>
<td>Understanding of physiology and medical terminology</td>
</tr>
</tbody>
</table>
At GW, data analytics students actively collaborate with peers and faculty on research, which is conducted across several facilities on and off campus.

**RESEARCH AREAS**

- Decision-making under risk
- Group Decision-Making
- System Architecture
- Behavioral Epidemiology
- Disaster Risk Analysis
- Bayesian Statistical Modeling
- Search and Data Mining
- Data Error Recovery
- Machine Learning
- Embedded Systems and Compilers
- Cloud Computing
- Audio-Visual Data Processing

**LABORATORIES**

- X-Computing Lab
- Statistical Natural Language Processing
- GW Machine Learning Group
- Efficient, Flexible, and Dependable Clouds

**FACULTY**

SEAS students benefit from instruction, interaction, and collaboration with faculty who are on the cutting-edge of research and are leaders in their fields. More than two-thirds of our recently hired SEAS faculty members graduated from top 20 engineering and computer science programs in the U.S., or top programs across the world.

**CONTACT US**

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