Brandeis University, Division of Graduate Professional Studies
Adjunct Faculty - Robot Sensing and Perception

Are you an industry expert looking for the chance to shape the future of your field and mentor your next
generation of colleagues? If so, then teaching online for Brandeis University’s Division of Graduate
Professional Studies (GPS) might be right for you. GPS offers fully online, part-time master’s degrees in
fields such as Software Engineering, User-Centered Design, and Strategic Analytics. Brandeis is
consistently ranked among the nation’s top universities, and our online courses are developed using
best practices in online learning.

Course-Specific Qualifications

<table>
<thead>
<tr>
<th>Job Summary</th>
<th>Teach a 10-week online graduate course.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course(s)</td>
<td>Robot Sensing and Perception</td>
</tr>
</tbody>
</table>

Subject Matter Qualifications

- Minimum of 10 years’ experience with computer vision/machine vision.
- Familiarity with image formation, camera calibration, image & semantic segmentation, tracking, graph methods, machine learning, and deep learning.
- Experience applying perception to robotics desired, but not required.
- Understanding of ROS and its components (and tools such as rviz, gazebo, etc.) desired, but not required.

General Responsibilities, Skills and Qualifications

<table>
<thead>
<tr>
<th>Job Title</th>
<th>Graduate Professional Studies, Adjunct Faculty</th>
</tr>
</thead>
</table>

General Job Responsibilities

- Adhere to all policies and procedures as referenced in the GPS Instructor Policy Manual.
- Depending on the needs of the course, and consistent with the GPS Online Course Standards:
  - Develop a syllabus following program chair guidance and the syllabus template.
  - Develop content that aligns with course outcomes and offers the author’s experiences and perspectives on key points.
  - Deliver the course according to our teaching standards, which include actively facilitating online discussions, providing relevant and timely feedback on student work, reporting grades, and discussing student issues with staff.
  - Create or refine the course site in the Moodle learning management system.

General Skills

- Strong interpersonal skills when relating to students.
- The ability to communicate effectively in writing, including conveying complex information and promoting in-depth engagement on course topics.
- The ability to devote adequate time to courses, including responding to students and providing meaningful feedback in a timely manner.

General Qualifications

- Master’s degree required, PhD is a plus.
- Teaching experience preferred.
- Online teaching or learning experience preferred.