Guillermo Narvaez-Paliza

Website: guillonapa.github.io | GitHub: github.com/guillonapa
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EDUCATION

Brandeis University, Waltham, MA — Expected May 2018
Bachelor of Science in **Computer Science** and **Physics** (Minor in **Mathematics**)
Current GPA: **3.786**

RELEVANT COURSES (Brandeis University)

- Programming in Java
- Discrete Structures
- Software Entrepreneurship
- Data Structures and Algorithms
- Structure & Interpretation of Programs
- Scientific Data Processing
- Operating Systems
- Electronics Laboratory
- Theory of Computation
- Database Management Systems
- Capstone: Software Engineering
- Advanced Programming Techniques
- Theory of Probability & Statistics
- Multivariable Calculus/Applied Linear Algebra

SKILLS

- Java
- Ruby
- JavaScript
- React.js
- Ruby on Rails
- Matlab
- HTML
- CSS
- AJAX
- MVC Framework
- Data Structures
- Algorithms
- Test-Driven Development
- Lean Startup Methodology
- Git (Source Control)
- Web Development
- Eclipse Development
- Application Design
- Agile/SCRUM
- User Interfaces

EXPERIENCE

Brandeis University, *Data Structures & Algorithms Head Teaching Assistant,* Waltham, MA — August 2017 - Present
Head Teaching Assistant as of January 2018
- Organize and lead review sessions for undergrad students
- Design data structures and algorithms problems and programming assignments for students
- Lead a group of six teaching assistants for a course with over 80 students

TIBCO Software Inc., *Software Engineering Intern,* Waltham, MA — June 2017 - August 2017
- Developed the front and back end of a support wizard that enables users to troubleshoot software issues
- Shipped features for the company's event processing software using Java
- Designed and developed a live-analytics demo using stream processing
- Customized the web interface used for the company's data visualization software

Brandeis University, *Complex Fluids Researcher,* Waltham, MA — February 2016 - June 2017
- Researched at Rogers Lab studying soft matter and self-assembly processes
- Used microscopy techniques in order to identify patterns in equilibrium states and phase transitions
- Used graphic methods to process and analyze experimental data
- Wrote Matlab programs to simulate system behavior for any combination of physical parameters
- Derived mathematical models from fundamental chemical and physical principles to explain complex systems

LEADERSHIP / ACTIVITIES

- **Head Teaching Assistant** at Brandeis University (Computer Science Dept.) — January 2018 - Present
- **Captain and member** of the Brandeis Fencing Team (NCAA) — August 2014 - Present
- **Captain** of the Fencing State of Mexico Squad — May 2009 - August 2015
- **Member** of the Fencing National Team — February 2014 - August 2015

HONORS / AWARDS

- All-Academic Honors (University Athletic Association)
- All-Star First Team Athlete in Northeast Fencing Conference / Mexican Fencing National Champion

SCHOLARSHIPS AND FELLOWSHIPS

Landsman Charitable Foundation Endowed Scholarship — February 2016
- Awarded to a Brandeis undergraduate student who excels in the sciences and shows great interest in engineering

Materials Research Science & Engineering Centers (MRSEC) Fellowship — May 2016
- To support a project on DNA-induced self-assembly systems, their equilibrium states, and phase transitions

PRESENTATIONS

"Quantitative Study of Linker-Mediated Binding Between DNA-Coated Colloids," poster presentation, Summer Science Research Program, Brandeis University, Waltham, MA, August 2016

PROJECTS

My software development projects can be seen at **guillonapa.github.io** or **github.com/guillonapa**.