

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
- Program Structure & Interpretation
- 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

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

SKILLS

- Java
- CSS
- AJAX
- Eclipse
- Test-Driven Development
- Ruby
- Matlab
- JQuery
- Application Design
- Lean Startup
- JavaScript
- Ruby on Rails
- Data Structures
- Web Development
- Agile/Scrum
- HTML
- React
- Algorithms
- User Interfaces
- GIT/SVN

EXPERIENCE

Brandeis University, *Data Structures & Algorithms Teaching Assistant*, Waltham, MA

August 2017 - Present

- Organize and lead review sessions for undergrad students explaining data structures and algorithms
- Design and write problem sets and programming assignments for students
- Manage a group of six teaching assistants for the course

*Head Teaching Assistant
as of January 2018*

TIBCO Software Inc., *Software Engineering Intern*, Waltham, MA

June 2017 - August 2017

- Used TIBCO's software to design and develop a live-analytics demo to ship with StreamBase Studio
- Customized the web interface through HTML and JavaScript plug-in development
- Developed the front and back end of a support wizard used to extract data from the StreamBase Studio and the OS
- Extended StreamBase Studio using plug-in development for the Eclipse Platform

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

- **Captain and member** of the Brandeis Fencing Team (NCAA)
- **Captain** of the Fencing State of Mexico Squad
- **Member** of the Fencing National Team

August 2014 - Present
May 2009 - August 2015
February 2014 - August 2015

PROJECTS

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