

# Guillermo Narvaez-Paliza

Website: [guillonapa.github.io](http://guillonapa.github.io) | GitHub: [github.com/guillonapa](https://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: 3.774

## RELEVANT COURSES (Brandeis University)

- Programming in Java
- Discrete Structures
- Software Entrepreneurship
- Data Structures and Algorithms
- Scientific Data Processing
- Operating Systems
- Electronics Laboratory
- Theory of Computation
- Capstone: Software Engineering
- Advanced Programming Techniques
- Theory of Probability
- 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
- GIT/SVN
- User Interfaces
- Test-Driven Development
- Ruby
- Matlab
- Eclipse
- Application Design
- Lean Startup
- JavaScript
- Ruby on Rails
- Data Structures
- Web Development
- Agile/Scrum
- HTML
- jQuery
- Algorithms

## EXPERIENCE

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

August 2017 - Present

- Lead review sessions for undergrad students explaining data structures and algorithms
- Hold weekly office hours to aid students' comprehension of the material
- Grade problem sets and programming assignments

**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](http://guillonapa.github.io) or [github.com/guillonapa](https://github.com/guillonapa).