

Guillermo Narvaez-Paliza

415 South Street MB 3893, Waltham, MA 02453 | 949 285 2892 | gnarvaez@brandeis.edu

EDUCATION

Brandeis University, Waltham, MA

Expected May 2018

Bachelor of Science in Physics and Computer Science

Minor in Mathematics

Current GPA: 3.731

RELEVANT COURSES (Brandeis University)

- Programming in Java
- Discrete Structures
- Software Entrepreneurship
- Data Structures
- Theory of Computation
- Advanced Programming Techniques
- Applied Linear Algebra
- Calculus of Several Variables
- Electronics Laboratory
- Scientific Data Processing
- Modern Physics: Waves and Oscillations
- Thermodynamics and Statistical Mechanics
- Quantum Mechanics
- Electrodynamics
- Advanced Laboratory

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 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

EXPERIENCE

Brandeis University, *Complex Fluids Researcher*, Waltham, MA

February 2016 - Present

- Researcher at Rogers Lab studying soft matter and self-assembly processes
- Use of microscopy techniques in order to identify patterns in equilibrium states and phase transitions
- Use of graphic methods to process and analyze experimental data
- Write Matlab programs to simulate system behavior for any combination of physical parameters
- Derive mathematical models from fundamental chemical and physical principles to explain complex systems

Brandeis University, *Note Taker*, Waltham, MA

February 2016-May 2016

- Note-taking for a student with documented disability for the course “Quantum Mechanics”

The Justice, *Editorial Assistant*, Waltham, MA

October 2014 - February 2015

- Photographer for the independent student-run Brandeis University newspaper
- Participated in weekly 10 hour sessions where all editorial teams collaborated to produce the week’s issue
- Photographic editing with Photoshop software
- Digital design of newspaper covers and layout

SKILLS

- Windows and Macintosh
- Microsoft Office
- Mathematica
- Matlab
- Java
- HTML
- GUI
- CSS
- Photoshop and Illustrator
- Photography

LEADERSHIP / ACTIVITIES

- **Captain and member** of 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