

# MIGUEL PALENCIA

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## EDUCATION

**Haverford College**, Haverford, PA May 2020  
Bachelor of Science in Chemistry, with Biochemistry Concentration  
John P. Chesick Scholar and Questbridge Scholar

- *Senior Thesis*: The Synthesis of Novel Organically-Templated Metal Sulfites

**Moravian Academy**, Bethlehem, PA June 2016  
Class Valedictorian, College Board Hispanic Recognition Honors

## RESEARCH EXPERIENCE

**Haverford College, Department of Chemistry**, Haverford, PA Summer 2019  
*Student Research Assistant, Gilroy Lab*

- Synthesized a diporphyrinated peptide and a derivative having biomaterial applications.
- Imaged the compound using Atomic Force Microscopy (AFM) to reveal nanorods.
- Conducted review of prior research using X-ray diffraction techniques.
- Presented research at Haverford's Undergraduate Research Symposium and the 2019 SACNAS National Diversity in STEM Conference.

**University of Rochester, Department of Chemistry**, Rochester, NY Summer 2018  
*Research Experience for Undergraduates (REU) Participant, Stewardson Lab*

- Studied binding regions of human chorionic gonadotropin to luteinizing hormone receptor by using cyclic peptide antagonists.
- Performed multiple rounds of solid phase peptide synthesis.
- Maintained and filled nuclear magnetic resonance spectroscopy cryomagnets with liquid nitrogen

**Haverford College, Department of Biology**, Haverford, PA Summer 2017  
*Student Research Assistant, Bennett Lab*

- Conducted research on E. coli strains to observe the effects of pH on proliferation.
- Prepared reagent solutions and media for E. coli strains.
- Cultured and inoculated bacteria and performed measurements using a spectrophotometer.

## CAMPUS AND COMMUNITY ACTIVITIES

**Narberth Ambulance**, Ardmore, PA Fall 2016 – present  
*Volunteer Emergency Medical Technician (20 hours/month)*

- Treat and transport emergency and non-emergency patients.

**Honor Council, Haverford College**, Haverford, PA Fall 2019 – Spring 2020  
*Co-Chair and Senior Class Representative*

- Met weekly with council members and college administrators to discuss disciplinary issues.
- Chaired trials and managed the jury selection process.

*Secretary and Junior Class Representative* Fall 2018 – Spring 2019

- Drafted trial reports, managed council activities, and prepared meeting minutes.

**S-Chords (a cappella group), Haverford College**, Haverford, PA Fall 2017 – Spring 2019  
*Member*

- Performed one show a semester with weekly rehearsals and special engagements throughout the year.

## SKILLS

**Laboratory:** GC/MS, LC/MS, NMR, HPLC, IR, UV-Vis, and CD spectroscopy; immunostaining; gel electrophoresis

**Technical:** Microsoft Word, Excel, and PowerPoint; Adobe Premiere, iMovie; Chemdraw, Mathematica.

**Languages:** Spanish (fluent), Portuguese (beginner)