JENNIFER FERINA

Biomedical Engineering | Rensselaer Polytechnic Institute, Troy, NY | ferinj@rpi.edu

Education:

Bachelor of Science, Bioengineering, University of Washington, Seattle, WA – June 2019

GPA: 3.61 | Interdisciplinary Honors Program | Departmental Honors Program | Applied Math Minor

PhD, Bioengineering, Rensselaer Polytechnic Institute, Troy, NY – Aug. 2019 – Present

RPI Graduate Fellowship

Professional Experience:

Graduate Student, Dr. Juergen Hahn's Lab, Dept. of Biomedical Engineering, Rensselaer Polytechnic Institute, Aug. 2019 – Present

- Analyzing clinical data to characterize temporal conditions in children with Autism Spectrum Disorder

Sales and Marketing Intern, Xenon Arc, June 2019 – Aug. 2019

- Added website functionality in Squarespace, including product pages, clickable Mailto and phone links, and homepage redesign
- Created marketing graphics in Canva for email campaigns and website
- Experience with PDI reports, entered sales orders in Microsoft Dynamics, managed inbound lead requests
- Knowledge of food industry from working in Tate & Lyle Solutions Direct team

Undergraduate Teaching Assistant, Bioengineering Capstone Class, Mar. 2019 – June 2019

- Graded technical writing, replied to student emails, and held weekly office hours

Undergraduate Researcher, Dr. Valerie Daggett's Lab, Dept. of Bioengineering, University of Washington, Mar. 2016 – June 2019

- Lab software development in C# using MonoGame, Unity3D, Python for protein modeling and design
- Proficient in Chimera and performing molecular dynamics simulations and analysis
- Poster presentation, Undergraduate Research Symposium: *Wrangler: Peptide Design with Interactive Visual Analytics*, May 18, 2018
- Capstone project: design software with secondary structure prediction algorithm for peptide design
- Publication: *Visualizing Protein Folding and Unfolding*. Ferina, J and V Daggett. J Mol Biol. February 19, 2019.

Software Test Intern, Institute for Disease Modeling, June 2018 – Sept. 2018

- Wrote and refactored Python tests in order to statistically validate computational agent-based model
- Completed epidemiology coursework and coursework on disease modeling
- Experience in web testing and company presentations

Peer Advisor, Dept. of Bioengineering, University of Washington, Oct. 2017 – June 2018

- Built relationships with diverse groups of prospective high school and UW students in short period of time
- Helped student navigate complex admission and major selection process
- Planned events to cultivate stronger peer relationships in department
- Crafted prompt, concise, and thorough responses to student emails

Extracurricular Activities:

Volunteer, What is Reality VR/AR Exhibit, Pacific Science Center, Feb. 2019 – Jul. 2019

- Helped guests explore virtual and augmented reality technologies

Student Advisory Board, Dept. of Bioengineering, University of Washington, Oct. 2018 – June 2019

- Worked with faculty and graduate and undergraduate students to improve the Bioengineering curriculum
- Gathered feedback from peers and colleagues and reported to board

Phi Sigma Rho Engineering Sorority, University of Washington, Mar. 2017 – June 2019

- Participated in community service, philanthropy, and events on campus

Skills:

- Programming and computational experience:
  - C# (proficient)
  - Python (moderate)
  - MatLab (moderate)
  - Java (moderate)
  - Swift (beginner)
  - Microsoft Office (proficient)
  - Linux (moderate)
  - GitHub (moderate)
  - LabView (beginner)
  - LabChart (beginner)
  - Autodesk Inventor (beginner)
  - BitBucket (beginner)
  - Canva (moderate)
  - Microsoft Dynamics (moderate)