

Jameka Koehler

Providence, RI | 401-555-1421
JamekaKoehler@gmail.com
[linkedin.com/in/jamekakoehler](https://www.linkedin.com/in/jamekakoehler)

EDUCATION

University of Rhode Island, Kingston, RI

May 2023

Bachelor of Science in Physics, Mathematics Minor

GPA: 3.6/4.0, Dean's List (all semesters), University of Rhode Island Honors Program

Study Abroad, University of Barcelona, Barcelona, Spain

January - April 2022

RELEVANT COURSEWORK

Thermodynamics and Statistical Mechanics: Focused on emphasis on laws of thermodynamics and properties of thermodynamic systems, kinetic theory of gases, molecular velocity distributions, transport phenomena, Maxwell-Boltzmann statistics

Advanced Laboratory Physics: Performed experiments covering a wide range of disciplines including nuclear physics, properties of the electron, magnetism thermodynamics, and optics; stressed quantitative analysis, including statistics and curve fitting

Computational Physics: Developed and applied computer techniques to classical and quantum physics problems; emphasis on approximation techniques and numerical methods for solving matrix, integral, and differential equations arising in physics

RESEARCH EXPERIENCE

Nittany Technological Corporation, Boston, MA
Intern

June 2022 - Present

- Design, program, fabricate, and test prototypes of a multiple input touchscreen interface
- Analyze development, manufacturing, and marketing costs to identify a 25% cost savings in select prototype
- Compile research reports and present findings directly to senior management and clients

Rhode Island Organization for Nuclear Research, Providence RI
Research Assistant

May - August 2021

- Observed, reconstructed, and catalogued cosmic ray events detected in ATLAS
- Identified and reported abnormalities to establish norms and standard deviations

PROJECTS

Photophysics

December 2021 - March 2022

- Examined photophysics including excited state spectra and lifetimes, fluorescence, and two-photon absorption of chromophore-coated silver nanoparticles
- Operated Q-switched lasers, time-correlated single photon counting, nanosecond and femtosecond transient absorption spectroscopy, UV-vis spectroscopy, and fluorimetry
- Utilized MATLAB, Mathematica, LabVIEW, WinSpec, OriginPro, and ImageJ

Temperature Controlled Shipping Unit

June - August 2021

- Designed and analyzed with FEA shipping container that brings a biospecimen container to 4°C within 10 min
- Devised the system such that it is functional in 60° ambient temperature

WORK EXPERIENCE

Ocean Cove Bistro, Newport, RI
Server and Trainer

October 2017 - April 2020

- Trained new staff in the areas of restaurant operations, customer service, menu offerings, and staff policies
- Developed customer service, critical thinking, problem-solving, communications, and time management skills

AFFILIATIONS

Sigma Pi Sigma Physics Honor Society, Member

April 2021 - Present

American Physical Society, Student Member

May 2020 - Present

Alpha Phi Omega Service Fraternity, Member

October 2019 - Present

TECHNICAL SKILLS

C, C++, C#, Java, MATLAB, Mathematica, LabVIEW, WinSpec, OriginPro, ImageJ, CAD, ROOT, Solid Edge, Windows/Linux/Unix, Unity3D, Blender, Microsoft Office, Zoom, Google Workspace

LANGUAGE SKILLS

Fluent in Spanish (written and oral)