

# JIYOUNG (PAULINA) LEE

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## EDUCATION

**Minerva University — San Francisco, CA**

*Expected May 2025*

*B.S. Computer Science/Chemistry*

- Relevant courses: Statistical Mechanics, Optimization Methods, Probability & Statistics, Physics, Calculus, Linear Algebra, Data Structures and Algorithms, Machine Learning, Analytical and Numerical Methods with Differential equations, Analytical Chemistry
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## SKILLS/CERTIFICATIONS

- [Codepath](#): Intro to Web Development (Sep 2023 - Nov 2023)
  - Kaggle: Intro to Machine Learning, Intermediate Machine Learning
  - Python; SQL; Bash/Linux; HTML/CSS; Javascript
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## EXPERIENCES

**Torcuato Di Tella University — Neuroscience Lab Intern** | *Buenos Aires, Argentina*

Oct 2023 - Dec 2023

- Randomized trials for a cognitive training game (Mate Marote) using Python while utilizing **matrices** and **arrays** to increase game variety and user retention
- Researched dynamic game difficulty balancing using deep reinforcement learning

**KAIST — Computational Photodynamics Lab Intern** | *Daejeon, South Korea*

Jun 2023 - Aug 2023

- Developed a **Python** simulation program for harmonic oscillation of diatomic molecular bonds using numerical and analytical methods (Velocity Verlet)
- Automated 100 GROMACS commands by creating **Bash shell script**, increasing workflow efficiency and reducing manual labor
- **Extracted and cleaned data** from extensive molecular dynamics simulations, encompassing over 11,000,000 data points, allowing for easier data manipulation for plotting

**National Taiwan University — Organic Synthesis Technical Lab Intern** | *Taipei, Taiwan*

Oct 2022 - Dec 2022

- Practiced technical wet lab skills **meticulously**: Purifying compounds; dry and wet packing, using the rotary, using TLC to check organic compound's presence
  - Prepped for each wet lab with formatted writeups from supervisor
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## PROJECTS

[Sentiment Analysis on Journal Entries](#) — Python

Jan 2024 - Apr 2024

- Cleaning, and processing data using pandas and numpy and splitting data into training, testing and validation sets
- Building and exploring different models (XGBoost, RandomForest, SVM, etc.) for NLP from scikitlearn, keras and tensorflow

[Pomoduck](#) — HTML/CSS/Javascript/Figma

Sep 2023 - Nov 2023

- Building a website to promote healthier habit-building using the Pomodoro method

[Fast Food Exploratory Data Analysis](#) — Python

Oct 2023

- Cleaning data (consistency with data types) using pandas and numpy
  - Creating histograms with descriptive statistics (mean) and inferencing meaning
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## VOLUNTEERING

[Weekly science classes for refugee children](#) — *Event Coordinator/Manager*

Nov 2019 - April 2020

- Coordinated with a group of 4 peers to create comprehensive lesson plans for children aged 6-14
- Established a successful partnership with Penang Peace Learning Centre to coordinate transportation logistics, promoting equitable access to educational opportunities

[Penang International Science Fair](#) — *Workshop Coordinator/Manager*

Oct 2019 - Nov 2019

- Led a dynamic physics workshop at Spice Arena with a 14-member team, engaging over 400 children aged 6-13, breaking down the concept of density into simpler terms and conducting practical experiments to boost understanding
  - Won the 'Best Workshop' in the judges category.
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