

# Jasmine Khalil

☎ +1 223 333 0222 • ✉ jkk5987@psu.edu • 🌐 jasminekhalil.github.io • 🌐 jasminekhalil

## Education

**The Pennsylvania State University - Schreyer Honors College**  
*B.S. Electrical Engineering, Minor: Mathematics, GPA – 3.96/4.0*

**State College, PA**  
*Aug. 2022 - May 2026*

## Involvement and Experience

### J.P. Morgan Chase & Co

*AI Studio Project*

*Sept. 2024 - Present*

- Gaining hands-on experience developing a model that predicts future price movements of financial instruments during the last ten minutes of the NASDAQ exchange trading session.

### Electrical Engineering First Year Seminar Coordinator and TA

*EECS - Penn State University*

*Aug. 2024 - Present*

- Organizer and instructor for the Arduino EE First-Year Seminar

### NSF REU Program at Rutgers University

*DIMACS - Rutgers University*

*May 2024 - July 2024*

- Conducted research under the mentorship of Dr. Pierre C. Bellec on modeling statistical mechanics models using Coupling from the Past (perfect sampling).

### Cornell Tech AI Studio Fellow

*Cornell University - Break Through Tech*

*May 2024 - Present*

- Engaging in a 12-month skill-based curriculum using industry-standard ML tools and exploring and applying deep learning techniques in computer vision and natural language processing.

### HKN Eta Kappa Nu EECS Honors Society Member

*Penn State IEEE-HKN Epsilon Chapter*

*April 2024 - Present*

- Member and volunteer of HKN - National honor society consisting of the top seniors and juniors in EECS fields.

### Female Study Group Leader for Mathematics Differential Equations Course

*Women in Engineering Program (WEP)*

*Jan. 2024 - May 2024*

- Coordinated and instructed a Mathematics differential equations study group for women in engineering.

## Selected Projects

### Coupling from the Past for Statistical Mechanics Models REU Project (Link)

**Piscataway, NJ**

*DIMACS REU*

- Final paper from my research work during the DIMACS REU program under the mentorship of Dr. Pierre C. Bellec, funded by the NSF.

### Neural Network Binary Classification Using Gradient Descent Project (Link)

**State College, PA**

*Neural Networks*

- A breakdown and analysis of the mathematics for designing a neural network for binary classification using gradient descent.

### Deep Neural Network for Image Classification (Link)

**State College, PA**

*Neural Networks*

- Designed, tested, and improved a DNN to detect electronic components.

## Awards and Accomplishments

### Department of Electrical Engineering General Scholarship

**Penn State University**

- Awarded in recognition of my high academic and extracurricular efforts.

*2024-2026*

### Machine Learning Foundations Course

**Cornell University**

- Completed the ML foundations course as part of my Break Through Tech AI fellowship.

*2024*

### Evan Pugh Scholar Junior Award

**Penn State University**

- Awarded in recognition of being in the top 0.5% of juniors at Penn State.

*2024*

### The President Walker Award

**Penn State University**

- Awarded in recognition of my high academic efforts.

*2023*

## Skills

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Programming	Python, C, C++, MATLAB, HTML/CSS
Software	Solidworks, Multisim, LabView, Arduino IDE, Cura
Tools	LaTeX, Figma, Git
Hardware and Prototyping	3D Printing, Digital Circuit Design, Raspberry Pi, Micro controllers
Training	EE and IoT Training

## Relevant Coursework

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MATH 312H	Honors Concepts of Real Analysis — SP 25
EE 465	Probability for Electrical and Computer Engineers — SP 25
EE/CMPEN 454	Introduction to Computer Vision — FA 24
MATH 250	Ordinary Differential Equations — FA 23