

Theodore Demetriades

+1 (626) 524 – 0322 • theodore.demetriades@gmail.com

Pasadena, CA 91107

EDUCATION

Carleton College, Northfield, MN

Bachelors of Arts Candidate

Expected June 2026

- Intended majors (double): Computer Science, Physics
- Cumulative GPA: 3.8 / 4.00

Activities: Varsity Track and Field
Production office Projectionist (paid)

WORK EXPERIENCE

Carleton College, Northfield, MN

Research Assistant

Summer 2023 – Present

- Conducting research to submit for publication in Global Sensitivity Analysis with Carleton's Prof. Deepak Bastola
- Used R programming language to work with new statistical methods from pre-publication papers
- Developing Python package to support these new methods with applications in Principle Component Analysis and Machine Learning
- Gained experience with collaboration and working with cutting edge research

Polytechnic School, Pasadena, CA

Teacher / Teacher's Assistant

Summer 2022

- Hired as a TA at the Poly Summer school program for three computer science courses for students in grades 6-8
- Independently taught one of the classes, which gave an introduction to programming in Python
- Learned leadership and organizational skills through preparing and conducting the daily lessons

HONORS

- National Merit Scholar *2022 – Present*
- AP Scholar with Distinction *2022*
- Polytechnic School Computer Science Award *2022*
- Mary Ardis Schnebly Mathematics Award (Polytechnic School) *2022*

TECHNICAL SKILLS

- Programming languages/Technologies
 - Python (highly proficient) – Numpy, Matplotlib, Pandas, Tensorflow, Pytorch
 - NLP Independent project during the summer of 2021 with Pytorch/HuggingFace and Pandas
 - Performance enhancement with Cython
 - Java (proficient) – used in AP Computer Science at Polytechnic School
 - C and GDB debugger (proficient) – used in Intro to Computer Systems (CS208) and Programming Language Design & Implementation (CS251) at Carleton College
 - R (proficient) – used in Introduction to Statistics (STAT120) and Applied Regression Analysis (STAT230) at Carleton College
 - Scheme (intermediate) – used in Programming Language Design & Implementation (CS251) at Carleton College
 - SQL (basic)