# Pedro Pontes García

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## Education

**Cornell University, College of Arts & Sciences**  2022 - 2026

B.A. in Computer Science, **GPA:** 4.23 / 4.3  Ithaca, NY

**Relevant coursework:** OOP & Data Structures, Functional Programming, C++ Programming, Prog. Languages and Logics, Computer Game Architecture, Discrete Structures – Honors, Multivariable Calculus, Applicable Algebra

➔ Davis UWC Scholar, Dean's List: Fall 2022, Spring 2023, Fall 2023

**United World College Red Cross Nordic (UWC RCN)**  20220 - 2022

IB Diploma Programme, **IBDP score:** 44 / 45  Flekke, Norway

## Skills

➔ **Languages and paradigms:** Python, Java & OOP, C++, OCaml & Functional Programming, HTML, CSS

➔ **Tools:** data science tools (numpy, matplotlib), Git & GitHub, Unix, LaTeX, MS Suite

➔ **Soft skills:** leadership over small and large groups, experience in public-facing positions, experience in team software projects, some experience in academic research, training in first aid and wilderness first response

## Academic awards

➔ **Norway's National Young Researchers' Award, 2nd place**  Fall 2021 - Spring 2022

» 42-page research paper on dynamical modelling of pendulums through ODEs and computational models

» Worked with research advisor on multiple drafts

➔ Bronze Medal at Baltic Sea Philosophy Essay Event, twice  Fall 2020, Fall 2021

## Academic and project experience

**Game Development in OOP & Functional Paradigms**  Spring 2022 - Spring 2024

➔ Took role as programming lead in team of eight for the development of a 2D computer game in Java

➔ Led a team of three in the development of a 2D game engine in OCaml using functional programming constructs

➔ Actively took responsibility over development, integration, maintenance and testing of core game engine modules

➔ Individually developed 3D terrain generation and rendering system in Java using OOP constructs

**Teaching Assistant for Computer Science Department at Cornell**  Spring 2022 - Present

➔ Received a private offer to join the department as a teaching assistant for the largest course in the department

➔ Responsibilities include facilitating lab sessions of 40 students, holding office hours, grading work from students, and holding one-on-one tutoring

**Cornell Solar Boat Project Team**  Fall 2022

➔ Worked in a subteam on implementing new motor, gaining hands-on experience with circuits and tailored software

➔ Developed new website along with new graphical assets for the project team

## Leadership experience

**Executive Board at Cornell Spanish Debate Society**  Fall 2022 - Present

➔ Responsible over external communication and recruitment

➔ Debated in eight tournaments in the US, Canada, Panama and Colombia

➔ Multiple awards as debater including **top 1** in speaker category at US Novice Nationals 2023

**Outdoor Instructor at Cornell Outdoor Education**  Fall 2023 - Present

➔ Co-led an academic canoe course including a four-day trip with full responsibility over students' safety

➔ Co-led an academic cross-country skiing course over a semester

➔ Received training in outdoor education models, risk assessment and management, and educational leadership

## Languages

I speak fluent **Spanish**, **English**, and **Italian**; intermediate **French**; and elementary **Norwegian**.