

Pedro Pontes García

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Education

Cornell University, College of Arts & Sciences	2022 - 2026
B.A. in Computer Science, Mathematics – GPA 4.0	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, three times Dean's List	
United World College Red Cross Nordic (UWC RCN)	2020 - 2022
IB Diploma Program – IBDP score 44 / 45	Flekke, Norway

Skills

- **Languages:** Python, Java, C++, OCaml, TypeScript, TSX/React
- **Tools and technologies:** data science (numpy, matplotlib, D3), git, Unix/Linux, LaTeX, gRPC protocol
- **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

Projects and work experience

Software engineering internship at Equinor ASA – Trondheim, Norway	Summer 2024
→ Re-developed frontend of a predictive control tool for offshore applications and carbon capture solutions using TypeScript/React/D3 to create an improved and responsive web interface	
→ Built Python-based middleware server with gRPC communication to interface with legacy backend	
→ Collaborated with an international team of six, taking on rotational leadership, and proposed new program icon	
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	
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	

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**.