

Federica *D'Alvano*

STUDENT

About.

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Caracas, Venezuela

Arcana collector. In constant search for the next thread—think Old Hollywood films and prompt engineering research—to weave into the large tapestry of life's daily optimization, underpinning my goals of (tech) world domination. Committed to uplifting my Caraqueño community through access to educational resources.

Education.

IB Diploma
The British School of Caracas
2010 – 2025
Cumulative GPA: 4.0 (wGPA: 4.29)
Predicted IB: 45/45

Course Load.

HL Physics (7)
HL Mathematics Analysis & Approaches (7)
HL Economics (7)
HL English Language & Literature (7)
SL Spanish Language & Literature (7)
SL Theatre (7)

Extended Essay: English Language & Literature

Language.

Spanish	<div></div>
English	<div></div>
French	<div></div>
German	<div></div>

STEM Stuff.

Proficiency in:

- Python (Advanced)
- Swift (Intermediate)
- HTML (Intermediate)
- CSS (Beginner)
- Gemini API
- Object-oriented Programming

Research Intern

Stanford University Compression Forum
Summer 2024

- Worked collaboratively to conduct research on the use of AI agents in player behavior and the optimization of prompts under Professor Benjamin Von Roy.
- Published a research paper in The Informaticists Journal on our findings, entitled Optimizing Large Language Models: Learning from Mistakes in Gameplay

Scholar

Girls Who Code

Summer 2023

- Reinforced Python programming skills, learning how to apply them to data science and machine learning.
- Became a part of a global community of women in computer science, uplifting each other's voices.
- Completed certificates in Data Science and Cybersecurity.

Scholar

Code With Klossy

Summer 2022

- Familiarized myself with Swift programming language, reinforcing my knowledge on web design.
- Designed and created an app prototype, BossPal, which helps women across the world find mentors, to feel less alone as you navigate a professional environment.

National & International Math Competitions

Grades 7 – 12

- Participated in two types of competitions: those organized by the United Kingdom Maths Trust (UKMT) and those organized by Asociación Venezolana de Competencias Matemáticas.
- The former draws from schools around the world, with over 700,000 students competing for top prizes, while the latter draws from schools within Caracas, before moving on to the regional and national levels in later rounds.
- Participated in four national competitions, passing through the first round.

Recognitions, UKMT Intermediate Mathematical Challenge

- Silver Award (2023)
- Silver Award (2022)

Recognitions, UKMT Senior Mathematical Challenge

- Silver Award & Best in School (2023)
- Bronze Award (2022) – junior and senior award; *awarded as a sophomore*

Words, Words, Words

Drama Club

British School of Caracas | Grades 6–7, 10–12

- Recruited fifteen students to join our budding drama club.
- Contacted sponsors to help fund the sets and costumes for our Mamma Mia! production; oversaw the management and delivery of props and costumes.
- Mentored younger members, practicing lines and songs for upcoming performances.
- Performed in fifteen stage shows before audiences of 100+.

Ersatz Writer

Grades 9 – 12

- Propelled to write: essays, short stories, never-ending sentences and rants.

Received Commendation in the John Locke Essay Competition (2022).

(Maybe) The Next Stevie Nicks, Voice & Guitar

Grades 9 – 12

- Performed in five concerts in front of over 200 people.
- Mastered my vocal and guitar-playing skills by attending two-hour weekly lessons.
- Diversified my musical range by exposing myself to artists from different cultures and centuries (from Bad Bunny to Laura Pausini).

Teacher

English Language Project | Grades 9 – 12

- As part of an ongoing effort to teach English to students in vulnerable communities, volunteered as an English teacher, planning weekly hour-long lessons.
- Guided learning for up to ten students, intent on stimulating their love for learning in the process.
- Provided specialized tutoring for two law school students, providing law-based lessons in grade 11.



Founder

The Library Project | Grades 10 – 12

- Organized the donation of over 150 children's books, arranging once per trimester transportation and delivery to a school in Petare, Caracas's most impoverished favela, and to a school in Chirimena, an impoverished fishing town in Miranda state.
- Led monthly guided reading activities with first and second graders.
- Reading is what opened the floodgates to my love for knowledge acquisition, as well as serving as an escape during the toughest of times; I started this program to allow other children's lives to be changed by simply reading a book.

Co-Founder

Lion's Den Newspaper | Grades 10 – 12

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Back to Business.

Runner-Up; Winner

TBSC Shark-Tank Night | Grades 9 – 10

- Developed a business plan for a potential startup. Evaluated the local Caracas market to understand viability and the needs of consumers. Presented the plan to parents and teachers.
- The winning idea: in an attempt to reduce the impacts of rising living costs and operate more sustainably, convert drink dispensers into household dispensers for cleaning supplies, like dish soap, so people can bring the container in for refill. Not only are you saving the planet by reducing plastic pollution but also reducing costs for consumers.

Placed second (runner-up) in grade 10 and earned top award in grade 11.

Marketing & Live Show Production

TELEVEN | Summer, Grade 10 (July 10 – 21, 2022)

- Wrote ad spots for upcoming shows on Venezuela's largest television network.
- Conceptualized social media posts to promote the on-air talk show La Bomba.

Leadership.

Student Government

The British School of Caracas | Grades 7 – 12

- As a member of the student government, facilitated discussions between students and teachers, coordinating guided study sessions for exam-year students.
- Compiled and communicated requests from students to staff.
- Directed a student mentoring program.
- Named Head of Teaching and Learning in Grade 11; elected by majority vote.



Diplomat in Training

MUN Club | Grades 6 – 12

- Recruited fifteen students to the cause—informed conversation is important!
- Organized the school's first-ever British MUN Conference, hosting around 100 students, coordinating the debates and food and beverages for all.
- Elected Secretary-General of said Conference in Grade 11.
- To date: have participated in seven conferences—five national and two international.
- Led TBSC's first-ever delegation to Harvard MUN as Head Delegate in grade 11.

2 Best Delegate Awards, 1 Outstanding Delegate Award & 2 Honorable Mentions.

Debater Aficionada

Debate Team | Grades 7 – 12

- Served across different roles throughout my debating years, including Junior Captain (Grades 7 – 8), Reply Speaker (Grade 9), and Senior Debate Captain (Grades 11 – 12).
- Recruited ten students to join the club.
- Conducted weekly sessions where I mentored students (grades 6–10), guiding them in the process of acquiring speaking skills and synthesizing arguments (whilst attempting to keep my sanity).
- Participated in six international competitions.
- Evaluated different topics, prepared speeches and synthesized ideas during debates.
- Led the organization of the first-ever TBSC debate competition, introducing 40+ newbies to the wide world of debate.

4 Star Speaker Awards; broke first-in for Oxford Schools Debate International Rounds, qualifying for finals.

Leader

RISE Fun Days | Grades 7 – 12

Rincon Infantil San Edmundo (RISE) is a local charity organization aimed at protecting children's rights; it provides an education center which students can go to afterschool, on weekends and holidays to safeguard, educate and care for them.

- Oversaw 8 five-hour day events, 'fun days' involving over one hundred children (members of RISE).
- Arranged the provision of around 100 plates of food and donations during bi-termly RISE 'fun days'.

In 2023, awarded the Iguana Outdoor Education Student Leadership Award for work with the organization.

Athletics

Right Wing & Goalkeeper

Varsity Girls' Soccer Team | Grades 10 – 12

- Founding member; encouraged others to join and preserve our legacy.
- Trained twice weekly, helping to coordinate matches against other schools.

Placed fourth in Regional 7V7 League



Jazz & Urban Specialist, Dance

Grades 9 – 10

- Attended two-hour biweekly lessons, honing coordination, rhythmic and expressive skills.
- Developed and learned choreographies alongside an amazing team of dancers.
- Participated in two presentations before an audience of over 200 people.

Singles, Club Tennis

Grades 6 – 10

- Attended weekly lessons, arranging friendly matches and participating in club matches.
- Developed a sense of coordination, patience and stamina.

Academic Honors.

Head of School Award

The British School Caracas | Grade 11

- For outstanding effort and achievement in all aspects of school life throughout the academic year.
- For embodying TBSC student values in all aspects of school life.

COBIS Student Achievement Award

The British School Caracas | Grade 10

- For exceptional academic achievement in all areas of study.

Award for Excellence, Outstanding Effort and Achievement

The British School Caracas

For excellence in different areas of study, achieving a grade average of 4.0:

- Computer Science (2023, 2022)
- Science (2023, 2022)
- Physics (2024)
- Mathematics (2024, 2023, 2022)
- English Language & Literature (2024, 2023, 2022)
- Spanish Language & Literature (2023, 2022)
- Business Studies (2023, 2022)
- History (2023, 2022)
- Geography (2023, 2022)
- French (2023, 2022)
- Theatre (2024)

Hobby, Par Excellence

Fashion aficionado, big on knitting and crochet.