

MEGHA MOHAN

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EDUCATION

2011 - Present

SCHOOL: JSS PRIVATE SCHOOL, DUBAI – (FROM KG1 TILL GRADE 12)

➤ JSSPS is a CBSE Curriculum School with KHDA ranking Very Good.

➤ CBSE Grade 10 Board results: 93.6%

PRESIDENT OF SCIENCE CLUB

2023

PRESIDENT OF INNOVATION

2024

STANDARDIZED TESTS AND TOEFL

SAT

2024

Math –

R&W –

Total –

TOEFL

2024

109/120

ACADEMIC AWARDS

➤ **GENIUS AWARD** for overall excellence in academics from Grade 1 till Grade 10

2013 – 2022

➤ **SPECIALIST AWARD** from Grade 1-Grade 10 for getting above 90% in all the subjects

2013 – 2022

➤ **Ms. VIRTUOSO** overall excellence in academics and extracurricular for Grade 11 & 12

2023 – 2024

➤ Gold medal in English Olympiad

2022

➤ School rank 2 in **SCIENCE OLYMPIAD**

2021

➤ School rank 3 in **ENGLISH OLYMPIAD**

2020

➤ **Global sustainability award: GSA 2023 Rank 2** (runners up)

2023

PHYSICS EXPERIENCE & RESEARCH

Research:

➤ **ASTROPHYSICS RESEARCH PAPER**

2023 - 24

➤ Astrophysics research paper published in the Young Scientists Journal

Topic: Dark Matter and The Abnormalities of Dwarf Galaxy Rotation Curves.

- Did an in-depth analysis of data collected about galaxy rotation curves with a specific concentration on dwarf galaxies and correlated the abnormal results with phenomena related to dark matter theories.

INTERNSHIPS:

➤ **IIRS / ISRO**

2024

- Online internship from **Indian Institute of Remote Sensing at Indian Space Research Organization.**

- Spent one month learning about remote sensing from scientists working at ISRO, worked on a mini project under their guidance.

ONLINE COURSES:

➤ **THE SCIENCE OF THE SOLAR SYSTEM – CALTECH**

2021

- A course on the science behind the formation and exploration of the solar system.

➤ **THE EVOLVING UNIVERSE – CALTECH**

2022

- An introductory astronomy survey class that covers our understanding of the physical universe and its major constituents, including planetary systems, stars, galaxies, black holes, quasars, larger structures, and the universe as a whole.

➤ **FROM THE BIG BANG TO DARK ENERGY – UNIVERSITY OF TOKYO**

2021

- A course explaining the evidences of Dark Energy, a mysterious energy multiplying in vacuum.

➤ **ASTROTECH – UNIVERSITY OF EDINBURGH**

2021

- A course about the technology used to make advances in space sciences and astrophysics.

➤ **PYTHON FOR EVERYBODY – UNIVERSITY OF MICHIGAN**

2023

- An introductory set of five courses on python programming.

LEADERSHIP:

- **TEACHING ASSISTANT AT JSS PRIVATE SCHOOL** 2022-2025
- Currently substituting for French and Physics teachers in junior classes during their absence.

INNOVATION:

- **INVENTOR OF BIO INK** 2024
 - Invented a completely biodegradable dry erase marker.
 - This invention is implemented throughout the high school- all the teachers use the bio-ink markers for teaching.
- **PRESIDENT OF INNOVATION AT JSS PRIVATE SCHOOL** 2023-2025
 - Organizes all the events related to sustainability and innovation throughout the school.

SUMMER PROGRAMS & COURSES

- **MITX** 2024
 - Introductory course to Differentiation and Derivatives hosted by MIT on the MITX platform.
- **TAKE THE WORLD FORWARD FELLOWSHIP (JAN 2023 TILL JUNE 2023)** 2023
 - conducted by Harvard Student Agencies (HSA) in collaboration with Learn with Leaders.
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- **MICHIGAN MATH & SCIENCE SCHOLARS PROGRAMME** 2023
 - Got selection from University of Michigan for Michigan Math and Science Scholars Programme
 - Working on a project using data from the Dark Energy Spectroscopy Instrument (DESI) and the Gaia telescope, already preselected for purposes of demonstration.
- **GLOBAL RESEARCH AND INNOVATION PROGRAMME 2021** 2021
 - conducted in association with and certified by **National University of Singapore (NUS)** and **Nanyang Technological University (NTU)**

PHOTOGRAPHY ACHIEVEMENTS

- Member of **IMAGE COLLEAGUE SOCIETY (ICS) INTERNATIONAL** and achieved photographic portfolio distinction: 2023 - 2024
 - **Associate of the Image Colleague Society (A.ICS)** - a distinction awarded to photographers who demonstrate a solid technical and artistic foundation in their work.
 - **Fellow of the Image Colleague Society (F.ICS)** - is a higher distinction and is awarded to photographers who have achieved a significant level of excellence and mastery in photography
- Member of **PHOTOGRAPHIC SOCIETY OF AMERICA (PSA)** 2024
 - **Bronze Portfolio Distinction (BPSA)** It is one of the recognition levels in the PSA's Portfolio Distinction Program. Photographers can earn this distinction by submitting a portfolio that demonstrates both their technical skills and their artistic vision.
- Silver Medal Holder at the **INTERNATIONAL FEDERATION OF PHOTOGRAPHIC ART (FIAP) FÉDÉRATION INTERNATIONALE DE L'ART PHOTOGRAPHIQUE.** 2024
- **FOUNDER & INSTRUCTOR AT CAPCHARTS** 2021 – till date

CAPCHARTS is a non-profit organization that teaches the basics of Photography to children and adults with intellectual disabilities (who we refer to as “People of Determination” in the UAE). We have a website dedicated to share their newly learnt skills through the portal. We currently have around 50 participants under my mentorship. Field trips are organized on a regular basis to enhance their hand-on experience.

EXTRACURRICULAR ACTIVITIES

- **VIOLIN** 2022 – till date
 - Passed Grade 4 level exam of ABRSM with distinction.
- **MEMBER OF GAVELS CLUB (TOASTMASTER CLUB)** 2021 – till date
 - The Gavels club is a toastmaster’s club for preteens and teens.

Languages

- French – DELF A2 – passed with 85% marks 2022