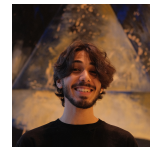


Omar Elshinawy

Cairo, 24th of February, 2004

Mathematics BSc, Constructor University, Bremen, Germany

oeslinawy@constructor.university — +49 (176) 859-249-76 — [LinkedIn](#) — [Website](#)



STATEMENT

A firm believer that mathematics is at the heart of everything. Aims to foster a culture of awareness, understanding & appreciation of mathematics. Working towards becoming a world-class researcher, might collect a fields medal along the way.

EDUCATION

Constructor University, Bremen, Germany

September 2022 — Current

Bachelor of Science in Mathematics, Minor in Data Science — [Relevant Courses](#)

Current Grade: B

SEMINARS & TALKS

- **The Banach-Tarski Paradox** — *An Exposition*

[Presentation](#) — Fall 2023

- **Russell's Paradox (Deutsch)** — *Eine Freundliche Einleitung*

[Presentation](#) — Fall 2023

RESEARCH EXPERIENCE

Interaction Energy of Quasi-particles in a Bose gas

Bremen, Germany

Student Research Group led by Professor Sören Petrat

November 2022 — February 2023

- mentorship on effectively integrating mathematical and computational methods into a research project.
- early involvement working within a research team.
- Bose-Einstein condensate is cool (!)

ENTREPRENEURSHIP

O(ξ) — Mathematics Empowerment Initiative

Bremen, Germany

Founder

February 2024 — Current

- foster questioning minds that are unafraid of frustration, eager to make mistakes and persevere to the ultimate triumph.
- illustrate the study of Mathematics as a construct of intellectual empowerment, a poetry of eloquence & precision.
- implement a learning methodology that captures the uniqueness of each student's learning journey.
- with 4+ courses featuring +120 hours of content, the initiative has transformed the academic journey of 10+ students.

LEADERSHIP EXPERIENCE

The Math Club @ Constructor University

Bremen, Germany

Co-lead

September 2023 — Current

- mentoring younger students; and motivating dialogue that dismantles math stereotypes.
- orchestrated a renaissance of the mathematics community, with a record 22+ members this year.
- introduced Math Sundays, a dynamic initiative dedicated to immersive mathematical enrichment within the community.

Google Developer Student Club @ Constructor University

Bremen, Germany

Project Management Core

October 2022 — Current

- conducted 10+ workshops for Google and the Hult Prize Foundation on the human element of design thinking.
- directed 400+ design thinkers to design creative solutions for the 17 UN Sustainable Development Goals.
- mentored [ResQme](#), a GDSC Solution Challenge team, to a top-100 worldwide spot.

PROFESSIONAL EXPERIENCE

Mathnasium of the Courtyard

Giza, Egypt

Assistant Director

April 2022 — August 2022

- analyzed student attendance trends, maintained a target 3:1 student-to-instructor ratio with a 90% success rate.
- built family relationships; solicited parent feedback; generated leads.
- ensured a developmentally appropriate learning experience for each student.

Lead Mathematics Instructor — [Teaching Statement](#)

November 2021 — April 2022

- orchestrated the instructor team (floor) to provide excellent instruction.
- mentored and oriented newly-hired instructors to facilitate an easy transition into their roles.
- instructed high volumes of students (3 - 4 students) concurrently.

PROJECTS

sustainApple, [Application](#)

Bremen, Germany

jacobsHack! 22

November 2023

- aims to reduce carbon footprint by comparing its users' sustainability scores (in apples) to create self-awareness.
- uses geo-locational input to provide insightful inferences on the CO2 emissions of a user's vehicle, inspired by [EEA](#).

AWARDS

Die Sparkasse Mathematik, €10.800

Bremen, Germany

recognition of students with outstanding aptitude and enthusiasm for [mathematics](#).

2022 — 2025

Jacobs University Grant, €18.000

Bremen, Germany

awarded on a performance potential basis to talented students from around the world.

2022 — 2025

SOFTWARE

Java — JavaScript — NumPy — SciPy — Matplotlib — Pandas — Scikit.learn — SQL — LaTeX

LANGUAGES

German, **B1** — English, **C1** — Arabic, **Native**