



Niba Kainat

Nationality: Pakistani **Date of birth:** 10/04/1999 **Gender:** Female

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Work: Department of Engineering, Università degli Studi di Palermo, 90128
Palermo (Italy)

ABOUT ME

I hold a Master's Degree in Mathematics from COMSATS University Islamabad, where I developed a strong foundation in numerical methods, mathematical modeling, and data analysis. My master's thesis focused on "Flow over a Radiative Needle Moving in a Stream with Temperature-Dependent Viscosity and Thermal Conductivity," which deepened my understanding of boundary layer flow, fluid behavior, and heat transfer analysis between fluid layers. Building on this expertise, I am currently pursuing a Ph.D. with a project titled "Efficiency Optimization of Radiative Needle Aerodynamics for Green Aviation." This research aims to enhance the aerodynamic efficiency of radiative needles, contributing to more sustainable and environmentally friendly aviation technologies by optimizing heat transfer and fluid dynamics.

EDUCATION AND TRAINING

PhD in Mechanical, Manufacturing, Management and Aerospace Innovation

Università degli Studi di Palermo, Italy [01/11/2023 – Current]

Address: Piazza Marina, 61, Palermo PA, 90133 Palermo (Italy) | Website: <https://www.unipa.it/> | Field(s) of study: Engineering, manufacturing and construction

Master of Science in MATHEMATICS

Comsats university Islamabad [20/09/2021 – 10/07/2023]

City: Islamabad | Country: Pakistan | Website: www.comsats.edu.pk | Field(s) of study: Natural sciences, mathematics and statistics: • Mathematics | Thesis: Flow over a Radiative Needle Moving in a Stream having Temperature-Dependent Viscosity and Thermal Conductivity

Bachelor of Science in MATHEMATICS

Government Post Graduate College Chakwal (Affiliated with University of Gujrat) [17/08/2017 – 12/06/2021]

City: Chakwal | Country: Pakistan | Website: www.uog.edu.pk

WORK EXPERIENCE

Mathematics lecturer

Superior College

City: Chakwal | Country: Pakistan

LANGUAGE SKILLS

Mother tongue(s): Urdu

Other language(s):

English

LISTENING B2 READING C1 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Microsoft Office (Word , Excel and Power Point) / Fiverr / Google Drive / linkedIn / canva

PROGRAMMING SKILLS

Matlab

Python

CONFERENCES AND SEMINARS

[31/05/2022 – 31/05/2022] COMSATS University Islamabad Pakistan

One Day International Conference on Recents Developments in Applied and Computational Mathematics

[06/05/2024 – 09/05/2024] Scopello, Italy

4th International Aerospace Days

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