Rabia Ali Hundal

📍 **Work** : Via Piero Gobetti 101 , ISAC - CNR, 40129, Bologna (BO) , Italy

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✉ **Email:** rabia.hundal@iusspavia.it 📞 **Phone:** (+39) 3483787528

Gender: Female **Date of birth:** 11/10/1993 **Nationality:** Pakistani

ABOUT ME

As a dedicated researcher in the field of atmospheric sciences, I am driven by a commitment to understand and mitigate the environmental impacts of human activities. My expertise includes advanced statistical analysis and a thorough understanding of environmental dynamics.

WORK EXPERIENCE

[10/12/2016 – 31/08/2021]

Reseach Assistant

Institute of Space Technology, Department of Space Science

City: Islamabad | **Country:** Pakistan

EDUCATION AND TRAINING

[01/12/2022 – Current]

PhD - "Impact of European open fire emissions to greenhouse and reactive gas atmospheric variability"

National Research Council (CNR) , Bologna https://www.isac.cnr.it

City: Bologna (BO) | **Country:** Italy |

[01/09/2017 – 27/10/2020]

Masters of Global Navigation Satellite Systems

Department of Space Sciences, Institute of Space Technology, Islamabad, Pakistan https://www.ist.edu.pk/

City: Islamabad | **Country:** Pakistan |

[01/09/2012 – 18/08/2016]

Bachelor Degree in Space Science

Department of Space Sciences, Institute of Space Technology, Islamabad, Pakistan https://www.ist.edu.pk/

City: Islamabad | **Country:** Pakistan |

LANGUAGE SKILLS

Mother tongue(s): Urdu

Other language(s):

English

LISTENING C2 **READING** C2 **WRITING** C2

SPOKEN PRODUCTION C2 **SPOKEN INTERACTION** C2

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

DIGITAL SKILLS

My Digital Skills

Programming languages (Python, R Studio, Fortran 90) | Satellite datasets retrievals | Data Analysis and visualization | Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access

PUBLICATIONS

[2017]

PM10 Sampling and AOD Trends during 2016 Winter Fog Season in the Islamabad Region

Reference: Aerosol Air Qual. Res. 18: 188-199.

- In a first study, PM_{10} samples were collected in intensive fog days in Islamabad.
- PM_{10} varied from 123 to 202 µg m^{-3} with a mean concentration of 177 µg m^{-3}.
- PM_{10} levels were higher as compared to limits of Pak-NEQS and WHO guidelines.
- Si, K, Ca, Mg, Zn, Fe, Pb, Al found with crystalline shapes, source as soil.
- AOD levels were found to be elevated during heavy fog days.

CONFERENCES AND SEMINARS

[14/12/2021 – 16/12/2021]

Seventh International Conference on Aerospace Science and Engineering - ICASE

  Institiute of Space Technology , Pakistan

Oral Presentation: Ionospheric responses to geomagnetic storm of June 2015 over the Middle East region from GNSS TEC and GUVI

[20/05/2019 – 24/05/2019]

International Space Weather Initiative Workshop   Abdus Salam International Centre for Theoretical Physics (ICTP) Trieste, Italy

[27/05/2019 – 31/05/2019]

Workshop on Ionospheric Forecasting for GNSS Operations in Developing Countries: Findings and Challenges

  Abdus Salam International Centre for Theoretical Physics (ICTP) Trieste, Italy

RECOMMENDATIONS

Name: Michela Maione   PhD Supervisor

I am doing my PhD under her supervision

Email: michela.maione@uniurb.it

Name: Paolo Cristofanelli   PhD co-supervisor

I am doing PhD under his co-supervision

Email: p.cristofanelli@isac.cnr.it