

Irfan Karim

Graduate Research Assistant
Department of Earth and
Atmospheric Science
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Education

University of Houston, Texas

PhD Candidate Atmospheric Sciences

CGPA: 3.66

Dissertation: Characterizing Emission Sources of CO₂ and CH₄ in Houston using isotopic $\delta^{13}\text{C}$ signatures.

Research Supervisor: Dr. Bernhard Rappenglueck

Jan 2021-Present

Government College University, Lahore

M.Phil. Environmental Science

CGPA: 3.17

Thesis: Role of BACIP's Energy Efficient Products to Induce Sustainable Development Practices among the communities of the Hunza District (Gilgit-Baltistan).

Sep 2011-Dec 2013

Government College University, Lahore

BS. Hons. Environmental Science

Division: 1st

Thesis: Man Induced disturbances on the status of Birch Forest around Blue lake, Naltar Valley Gilgit.

Sep 2007-Aug 2011

Professional Experience

1. Pakistan Poverty Alleviation Fund, Islamabad

- *Assistant Manager*
Environment and Social Management

June 2014-Dec2020

2. Aga Khan Planning and Building Service of Pakistan

- *Water Analyst*
Physical, biological, and chemical Testing.

June 2011-Sep 2012

Research Interests

- Urban air quality
- Atmospheric chemistry
- Remote sensing

Research Publication:

Karim I., Rappenglueck B. (2023): Impact of Covid-19 lockdown regulations on PM_{2.5} and trace gases (NO₂, SO₂, CH₄, HCHO, C₂H₂O₂, and O₃) over Lahore, Pakistan, Atmos. Env., 119746, DOI:10.1016/j.atmosenv.2023.119746
<https://doi.org/10.1016/j.atmosenv.2023.119746>

Manuscripts Reviews:

- Air Quality, Atmosphere & Health (3)

Membership

- 2021, American Meteorological Society (AMS)

Certifications/Trainings

1. Hewlett Packard Enterprise
Introduction to Programming Using Python Introduction
to Programming Using Python - Aug 2021
2. NOAA: National Oceanic & Atmospheric Administration
HYSPLIT - June 2021

Conference Presentations

- Karim I., Rappenglück B. (2024): Air Quality Changes in Lahore, One of the Most Polluted City Worldwide During COVID 19 Lockdowns, EGU Joint Assembly, Vienna/Austria, 14.-19.04.2024.
- Karim I., Rappenglueck B. (2024): Impact of Covid-19 Lockdown Regulations on Air Quality over One of the Top Polluted City in the World, 104th Annual Meeting of the American Meteorological Society, 28.01.-01.02.2024, Baltimore MD/USA
- Karim I., Rappenglück B. (2022): Case study analyses of PM2.5 in Lahore, Pakistan, using in-situ air quality and remote sensing data, 102nd Annual Meeting of the American Meteorological Society, 23-27.01.2022, Houston TX/USA