

**Irfan Karim**

**Graduate Research Assistant**

Department of Earth and Atmospheric Science

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### **Educational Background**

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**Ph.D. Candidate**  
**Jan 2021 - Present**

Department of Earth and Atmospheric Sciences

**Thesis Title:** Characterizing Emission Sources of CO<sub>2</sub> and CH<sub>4</sub> in Houston using isotopic  $\delta^{13}\text{C}$  signatures.

**Academic Advisor:** Dr. Bernhard Rappenglueck

**September 2011 –**  
**December 2013**

M.Phil. Environmental Science, Government College University, Lahore

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

**September 2007 –**  
**August 2011**

BS. Hons. Environmental Science, Government College University, Lahore

**Thesis Title:** Man Induced disturbances on the status of Birch forest around Blue lake, Naltar Valley Gilgit, Pakistan.

### **Professional Experience**

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1. Pakistan Poverty Alleviation Fund, Islamabad, June 2014 – December 2020  
**Assistant Manager**

Monitor poverty reduction projects as environment and social management auditor, World bank and Italian funded across Pakistan. Prepared indigenous people plan (Kalash valley, KP, Pakistan) under the umbrella of World Bank Indigenous people framework.

2. Aga Khan Planning and Building Service of Pakistan, January 2014 – May 2014  
**Water Analyst**

Worked in the water testing lab section in AKPBSP. Undertook the water analysis (Biological and physical) implemented project by KFW and PPAF.

## **Research:**

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### **Under review:**

1. Impact of Covid-19 lockdown regulations on PM<sub>2.5</sub> and trace gases (NO<sub>2</sub>, SO<sub>2</sub>, CH<sub>4</sub>, HCHO, and C<sub>2</sub>H<sub>2</sub>O<sub>2</sub>) over Lahore, Pakistan

### **Publication:**

2. Man Induced disturbances on the status of Birch forest around Blue lake, Naltar Valley Gilgit. [http://www.pbgns.com/index.php?option=com\\_content&view=article&id=12:3rd-international-conference-proceedings&catid=17&Itemid=114](http://www.pbgns.com/index.php?option=com_content&view=article&id=12:3rd-international-conference-proceedings&catid=17&Itemid=114)

## **Honors and Awards**

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Presenter Botanic Gardens conference, Botanic Garden Secretariat Lahore Feb 2012.

## **Trainings**

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1. **15 Days Training in Italy:** (November 3, 2016 – November 20, 2016)  
Child friendly / participatory learning techniques within Primary school systems Income Generating Activities & Hospital: Structure and organization conducted by San Giovanni in Monte- Bologna, Italy.
2. **5 Days Training in Italy: (October 13, 2019 – October 18, 2019)**  
Study of Cooperative model of Italy for Benefitting Subsistence Farmers CENTOFORM, Ferrara, Emilia Romagna, LUISS Business School Italy

## **Professional reviews**

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- Air Quality, Atmosphere & Health – International journal