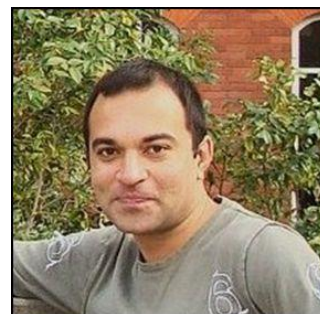


Dr. Muhammad Nauman Ahmad

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Education

- | | | |
|---|--------------------------------|------|
| ➤ Ph.D in Environment
University of York, UK | - | 2011 |
| ➤ MSc (Hons)
(Agricultural Chemistry) | (1 st Div) 3.69 GPA | 2006 |
| ➤ B.Sc. (Hons)
(Agricultural Chemistry) | (1 st Div) 3.38 GPA | 2004 |
| ➤ F.Sc.
(Pre Medical) | (1 st Div) 669/1100 | 1999 |
| ➤ Metric (Science Subjects) | (1 st Div) 596/850 | 1997 |

PhD Research Thesis

‘Air pollution impacts to agricultural crops’ Supervisor ‘Prof. Mike Ashmore’

Fields of Interest

- Climate change effects on agriculture and ecosystems
- Ozone and HF pollution
- Response of plants to elevated CO₂ and Temperature
- Nutrient leaching

Projects completed

1. **The impact of tropospheric ozone on mung bean using protective chemicals from January 2011-April 2012.** Funded by Asian Institute of Technology-United Nations Environment Programme Regional Resource Centre for Asia and the Pacific (AIT-UNEP RRC.AP) in collaboration with Stockholm Environmental Institute (SEIY), The University of York, UK
2. **Biomonitoring of traffic air pollution and its impacts on roadside crops.** Funded by Higher Education Commission, Pakistan (HEC) April-December, 2011.
3. **The purification of Kabul River water for drinking to be use as a future alternate clean water source for Peshawar city.** In collaboration with PCSIR Labs, Peshawar 2011.

Current Research Projects

1. ‘Quantifying the effects of climate change on water quality in Pakistan’ in collaboration with Wageningen University, Netherlands. 2013-2016.

Supervised MSc (Hons and BSc (Hons) Students

Waqar Aman (2014) MSc (Hons): *The effect of ozone on the nutritional quality of mung bean using protective chemical (EDU) funded by UNEP/SIDA*

Faryal Javed MSc (Hons) (2013): *Effect of climate change on water borne pathogens in flood affected areas of Nowshera.*

Yasar Basar (2013) MSc (Hons): *Effects of roadside pollution on agricultural crops in Peshawar.*

Ziad Ahmad (2011) MSc (Hons): *The purification of Kabul River water for drinking to be use as a future alternate clean water source for Peshawar city*

Fatima Khattak (2011) BSc (Hons): *Response of road side crops to heavy metals emitting from vehicular emissions*

Safina Khattak (2011) BSc (Hons): *The heavy metal analysis of agricultural soil near roadside of Peshawar.*

Current PhD, MSc and BSc (Hons) Students

Shahid Iqbal PhD (2013) Joint-supervision: *Quantifying the effects of climate change on water quality in River Kabul funded by NUFFIC, Netherlands*

Nayab Iqbal PhD (2012): *Quantifying the economic impact of tropospheric ozone on wheat and maize grown in Northern Pakistan funded by HEC, Pakistan*

Sadaf Qasim PhD (2012): *Phosphate runoff from agricultural lands of Peshawar and its quantification in River Kabul funded by HEC, Pakistan*

Maria Saleem (2012) MSc (Hons): *Response of two tomato varieties to different soil fluoride levels. funded by PSF, Pakistan*

Awards and Grants

VIMEK Fellowship, Wageningen University, Netherlands (2011)

HEC Scholarship for PhD at the University of York, UK (2007-10)

HEC Merit Scholarship for MSc (Hons) 2004-6

KPK Agricultural University Undergraduate merit scholarship (2000-03)

Conference travel grant by BSSS to Vancouver Canada (2010)

Travel grant by UNEP for Air Pollution Workshop in Delhi, India (2010)

Conference travel grant by APW to attend APW Workshop in Alberta Canada (2011)

The Darwin Scholarship Programme Monitoring and Communicating Biodiversity course UK (2008)

Research Publications

1. Javed, F., M.N. Ahmad, H. Shah, M. S. Iqbal, A. Wahid and S. S. Ahmad. **Effects of seasonal variations on physicochemical properties and concentrations of faecal coliform in River Kabul.** Accepted: World Applied Science Journal.
2. **Ahmad, MN,** Leon JL Van Den Berg, Hamid Ullah Shah, Abdul Wahid, Sofia Khalid, Patrick Bükler, Lisa Emberson, Sally Power and Mike Ashmore. 2013. **Effects of ozone on peri-urban vegetable crops in South Asia.** Environmental Pollution (174), 244-249.
3. **Ahmad, M. N.,** Leon JL van den Berg, Hamid Ullah Shah, Tariq Masood, Patrick Bükler, Lisa Emberson and Mike Ashmore. 2012. **Hydrogen fluoride damage to fruit trees in the**

vicinity of brick kiln factories in Asia: an unrecognised environmental problem?
Environmental Pollution, 162 (1): 319-324.

4. **Ahmad, MN**, M. Ashmore and Leon JL Van Den Berg. 2010. Effects of fluoride emissions from brick kilns on crops in Pakistan. Published in conference proceedings (pp: 96). 15th International Union of Air Pollution Prevention and Environmental Protection Associations' World Clean Air Congress at Vancouver, 12-16 Sep, 2010.
5. **Ahmad, M. N.**, H.U. shah, Saleemullah, K and M. Suleman. 2007. **Determination of beta carotene carotene in fresh vegetables using high performance liquid chromatography.** Sarhad J. Agric. Vol. 23(3): 767-770.
6. Saleemullah, K., **M. N. Ahmad**, H.U. Shah and I.A. Khalil. 2007. **Serum retinol level of human subjects fed carotene rich diet.** Sarhad J. Agric. Vol. 23(3): 759-762.
7. Saleemullah, K., H.U. Shah, **M. N. Ahmad** and M. Suleman. 2006. **Proximate composition and bio physical characteristics of local Soya bean cultivars.** Sarhad J. Agric. 22 (1): 151-153.
8. Afia, Z., H.U. Shah, S. Khan, **M. N. Ahmad** & M.S. Siddiqi. 2006. **Evaluation of Heavy metals and Pathogenic microorganisms in drinking water of Peshawar Valley.** J. Asian Environmental Technology, vol. 10, (4): 08-09.

International Seminars/Workshops/Symposium/Posters

- **Oral presentation and Session Chair:** 'Hydrogen fluoride damage to fruit trees in the vicinity of brick kiln factories in Asia: an unrecognised environmental problem?' 1st National Conference on Prospects and Opportunities for Agricultural Development in Pakistan at University of Haripur from June 25-27, 2013.
- **Workshop Participation:** Water quality and quantity assessment in Pakistan. 16-18 Oct, 2012. COMSTECH, Islamabad.
- **Oral presentation:** Climate change effects on high altitude ecosystems. 3-5 Sep, 2012. COMSTECH Institute, Islamabad
- **Conference Participation:** Climate Change: A challenge for Agriculturists. 28-30 May, 2012. KPK Agricultural University, Peshawar
- **Symposium Participation:** 'Environmental System Analysis: Past, Present and Future. 29 September, 2010. Wageningen University, Netherlands.
- **Oral presentation:** Effects of fluoride emissions from brick kilns on crops in Pakistan. Published in conference proceedings. 15th International Union of Air Pollution Prevention and Environmental Protection Associations' World Clean Air Congress at Vancouver, 12-16 Sep, 2010.
- **Oral presentation:** Hydrogen fluoride impacts on fruit trees in Peshawar' at CAPER conference, York march 29-31, 2010.
- **Poster presentation:** 'Air pollution impacts to agriculture in Peshawar' at CAPER conference, Manchester April 6-8, 2009.

Member of scientific societies

- British Ecological Society (BES), UK
- British Soil Science Society (BSSS), UK
- Pakistan Society of Biochemistry and Molecular Biology, Pakistan
- Society of Zoological Sciences, China

Languages Known

Written & Spoken

- English
- Urdu
- Pushto

Extra Curricular Activities

- Member of York University Staff Cricket team, UK (Division I)
- Proctor at Graduate and Post Graduate level
- Best Bowler award at College Level
- Inter University Hockey Player
- Inter University Hockey coach for two years
- Member of Blood Donor Society
- Member of Alfarabi Club

Personal Information

Parentage	:	Inayat-ur-Rahman
Date of Birth	:	15-08-1982
Domicile	:	Distt. Charsadda N.W.F.P.
Nationality	:	Pakistani
N.I.C. ID	:	17301-6403894-9
Passport ID	:	AG1158942
Religion	:	Islam
Marital Status	:	Married

References

Referee 1

Prof. Mike Ashmore
Environment Deptt. University of York, UK
Ph: 0044 1904434070
Email: mike.ashmore@york.ac.uk

Referee 2

Dr. Patrick Bükér
Research Associate, Stockholm Environmental Institute, University of York, UK
Ph: 0044 1904 322890
Email: patrick.bueker@york.ac.uk

Referee 3

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The Netherlands
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Referee 4

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Director, Stockholm Environmental Institute, University of York, UK
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