**CV**

**Engr. Hafiz Inam Ullah Khan, MS**

**Lab Instructor** Phone: +92-332-7117824

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**(a) FIELDS OF INTEREST**

Environmental analytical chemistry, chemical risk assessment, oil spills, complex chemical mixtures, fate and effect of chemicals, mass transfer models, solvation models, ecological sanitation, environmental data science.

**(b) PROFESSIONAL QUALIFICATION**

NUST, Pakistan Chemical. Engineering MS 2020

BUITEMS University, Pakistan Chemical Engineering BS 2011

**(c) Honors and Awards**

**President’s Gold Medal**

BUITEMS, Pakistan 2011

**Young Student Award**

Society of Environmental Toxicology and Chemistry (SETAC), Pakistan 2009

**Developing Economy Participants Travel Award**

Society of Environmental Toxicology and Chemistry (SETAC), Asia-Pacific 2018

**Clean & Green Islamabad: Ideas Competition (First Position)**

Ministry of Interior, Government of Pakistan 2018

**(d) CURRENT AFFILIATIONS**

- Lab Instructor in, National University of Sciences and Technology, Pakistan. since 02/2020

- Accountant Assistant also NUST due to much workload on Accountant. since 02/2020

- Visiting Lecturer at SCME National University of Sciences and Technology, Pakistan since 01/2017

Pakistan.

- Director- Computational Environment and Policy Research. KMZ International since 07/2018

Consultants WLL, Doha, Qatar.

**(e) PREVIOUS AFFILIATIONS**

- Lab Instructor, RAK University, Dubai, UAE 08/2015-09/2017

- Lab Instructor, BUITEMS University, Pakistan 04/2013-06/2015

- Shift Engineer in Pakistan Oil Refinery Limited Pakistan 04/2011-06/2013

- Visiting Lecturer, Comwave Institute, Islamabad, Pakistan 01/2008- 03/2009

- Research Associate, SCME, NUST, Pakistan 01/2018- 04/2020

**(f) SUPERVISORY ROLE** *\**

**Bachelor students**: 10 as main supervisor in all Lab work (2017-2022) at NUST, Pakistan

1 as co-supervisor (2017) at Bigelow Lab for Ocean Sciences, Pakistan

**Master students:** 21 as main supervisor in all Lab work (2018-2022) at NUST, Pakistan

1 as co-supervisor in all Lab work (2021) at NUST, Pakistan

1 as co-supervisor in all Lab work (2017) at and Masdar Institute, UAE

**(g) TEACHING ROLE** *\**

**High School**: 2 courses in SCME, NUST, Pakistan

**Bachelor**: 9 courses in RAK American University, Dubai, UAE as Instructor

3 courses in NUST, Pakistan as Instructor

*\* Detailed supervisory and teaching role is given in Teaching Portfolio attached as Annex-A.*

**(h) RESEARCH FUNDING ‡**

1. Principal Investigator, National Research Program for Universities (NRPU), Project Number: 15199, Higher Education Commission of Pakistan (PKR 14 million). *Design and development of rapid seafood poisoning detection system using low-cost and low-tech passive sampling approach for monitoring algal toxins in marine and freshwaters of Pakistan.*

Principal Investigator, Oxfam (PKR 375k). Project Title: *Climate CC2020 campaign in Pakistan and youth mobilization for the CLIMATE Project.*

2. Significant contribution in writing successful proposal for United States’ National Science Foundation ($400k). Role: International Collaborator. Project Title: *The Role of Photo-Generated Hydrated Electrons in Determining the Environmental Fate of Short-Chain Chlorinated Paraffins in Surface Waters*.

**(i) TECHNICAL SKILLS**

1. **Analytical Chemistry**

GC×GC-FID/µECD, GC×GC-ToF-MS, GC-MS, HPLC-DAD-MS/MS, Passive Sampling

1. **Computational Chemistry**

Turbomole, Gaussian, Cosmo-RS, Cosmoquick, ACD Labs ADME Software, US EPA EPI-Suite,

MATLAB, R-Program, XLSTAT

**(j) CONSULTANCY EXPERIENCE**

Environmental Monitoring of the largest fertilizer plant in Pakistan; Environmental Monitoring of Combined Cycle Power Plant in Sindh, Pakistan; Environmental Monitoring of a Chemical Storage Facility at Bin Qasim Port, Karachi, Pakistan; Air Dispersion Modeling for the calculation of vent stack height for a Combined Cycle Power Plant; Initial Environmental Examination for the 2D and 3D seismic surveys in Sindh and NWFP, Pakistan; Initial Environmental Examination for offshore and onshore drilling activities in Sindh, Pakistan. Updated environmental impact assessment report of Rawalpindi Environmental Improvement Project (REIP);Environmental Designing of Municipal Landfill**,** Environmental Monitoring of REIP;ensured the compliances to the Environmental Management Plan (EMP).

**(k) PUBLICATIONS ‡** ORCID ID:[**https://orcid.org/0000-0002-0188-0404**](https://orcid.org/0000-0002-0188-0404)

1. **Research Articles**
2. Aakash A., **Inamullah Dhona.**, **(2022)**. *Reliable Prediction of Sensory Irritation Threshold Values of Neutral Organic Compounds in Pure and Complex Mixtures Using New Models Based on Linear Free Energy Relationships and GC×GC Retention Parameters*. Preprint (under review) available at SSRN: <http://dx.doi.org/10.2139/ssrn.4120231>
3. Khawar MI., Malik AM, **Inamullah Dhona.**, **(2022).** *Exploring the role of Henry’s law constant in formulating two-parameter linear free energy relationships for facile prediction of lipid-water partition coefficients of neutral organic chemicals.* Preprint (under review) available at <https://doi.org/10.21203/rs.3.rs-1580074/v1>
4. Naseem S., Zushi, Y. **Inamullah Dhona.**, **(2021).** *Development and Evaluation of Two-Parameter Linear Free Energy Models for the Prediction of Human Skin Permeability Coefficient of Neutral Organic Chemicals.*  Journal of Cheminformatics, 13, 25 (2021). <https://doi.org/10.1186/s13321-021-00503-5>
5. Khawar M., **Nabi D.**, **(2021).** *Relook on the Linear Free Energy Relationships Describing Partitioning Behavior of Diverse Chemicals for Polyethylene Water Passive Samplers.*  ACS Omega, 6 (8) 5221-5232, https://doi.org/10.1021/acsomega.0c05179.
6. **Book Chapters**
7. **Inamullah Dhona.**, Ishfaq A., Riaz H., **(2019)**. “*Organic and inorganic contaminants from E-waste and their effects on environment*.” Electronic Waste Pollution: Environmental Occurrence and Treatment Technologies, In Press, 978-3-030-26614-1, Springer.
8. Zaffar R., Arshad M., Naseer K, Ali M., Ahmed Z., **Inamullah Dhona.**, **(2019)**. “*Monitoring of Organic Pollutants: PCBs in Marine Ecosystem*” Chapter 6, Marine Ecology: Current and Future Developments, Vol. 1, pp: 114-135, eISBN: 9789811412691, Bentham Science Publishers Pte. Ltd. Singapore

**(m) SYNERGISTIC ACTIVITIES**

* **Administrative Role:** Chairperson Steering Committee on Health and Safety (RAK University, Dubai); Member of Research Committee for the intramural funding (Jumeirah University, Dubai). Lab Instructor in Advanced Analytical Lab (NUST, Pakistan); Lab Instructor of NICHE Environment and Agriculture Lab (NUST Interdisciplinary Cluster for Higher Education, Pakistan); Coordinator IESE Laboratories (NUST, Pakistan).
* **Webinar Organizer/Speaker:** To reuse, or not to reuse, that is the question: Challenges and opportunities of wastewater reuse. Feb 24, 2021, Pakistan.
* **Session Chair** Advances in ecotoxicology: models and approaches. Session 16. SETAC-AP 2018, Pakistan.
* **Conferences:** Presented in more than 5 national and international conferences.
* **Jury/Judge:** for two national level competitions, and one university level evaluation of students’ projects.
* **Reach-out**: University’s focal person on water conservation awareness campaign in Islamabad/Rawalpindi City. Faculty sponsor of NUST Environment Club and organized several seminars and events to raise awareness about environment. University’s focal person for international student exchange.

**(n) REFERENCES**

1. Dr. Muhammad Arshad, Professor, Institute of Environmental Science and Engineering, National University of Sciences and Technology, Islamabad, Pakistan. Phone: +92-51-90854309 Email: marshad@iese.nust.edu.pk
2. Dr. Yasuyuki Zushi, Senior Scientist, Emission and Exposure Analysis Group, RISS, Advanced Industrial Science and Technology (AIST), 16-1 Onogawa, Tsukuba, Ibaraki 305-8569, Japan, Phone +81-29-861-2970. Email: zushi.yasuyuki@aist.go.jp
3. Dr. Amer Almadidy, Program Director, College of Health Sciences, Jumeira University, Latifa Bint Hamdan Street (West), PO Box: 555532, Dubai, UAE. Phone: +971-4-515 4547 / +971-50-693 5321 v
4. Dr. Yousuf Jamal, Associate Professor, Institute of Chemical Engineering & Technology, University of the Punjab, Quaid-i-Azam Campus, Lahore, Punjab, Pakistan. 0092-322-453-1679, yousufjamal.icet@pu.edu.pk