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EDUCATION

Sep 2020 – Nov 2023



Ph.D. in Industrial and Systems Engineering

The Hong Kong Polytechnic University, Hong Kong.

Thesis: Achieving Sustainable Development Goals in Pakistan: Focusing on Energy Sustainability in Multi-Sectoral Approach.

Sep 2012 – Sep 2014



M.S. in Energy Systems Engineering

National University of Sciences & Technology (NUST), Islamabad, Pakistan.

Thesis: Development, Performance Investigation and Optimization of Solar Water Heater Hybridized with Conventional Fuel.

Oct 2008 – Jul 2012



B.Sc. in Mechanical Engineering

University of Engineering & Technology, Taxila, Pakistan.

Final Year Project: Design, Development, and CFD Analysis of GSM Based Automated Solar Water Pump.

RESEARCH INTERESTS

Energy systems analysis	Sustainability transition	Intelligent decision-making	Energy policy
Renewables' integration	Energy-X-Nexus study	Operation optimization	Green buildings

RESEARCH PUBLICATIONS (List is attached)

✚ **Published:** *Book Chapters* = 01 *Journal Papers* = 22 (Total I.F. = ~123) *Conferences* (peer-reviewed) = 07
[Google Scholar](#)

✚ Submitted/ Under Review *Journal Papers* = 01

AWARDS & HONOURS (Selected)

- ✚ Doctoral, **HKPFS most prestigious**, RGC Hong Kong (2020-2023).
- ✚ **Young Scientist** selectee from the 'Hong Kong Laureate Forum' (2022).
- ✚ Won '**Best Innovation**' award at Cathy Hackathon competition, Hong Kong (Nov 2022).
- ✚ The Hong Kong Polytechnic University award of 3-years **Tuition Fee Scholarship for Ph.D.** (2020-2023).
- ✚ '**Best Thesis of the Academic Session**' award for M.S. thesis from USPCASE, NUST (2014).
- ✚ More than a decade of academia, industry, collaboration, and research experience (2012 to date).
- ✚ Reviewer for prestigious journals, such as Applied Energy, RSER, Energy Conversion and Management.

PROFESSIONAL EXPERIENCE

✚ Lecturer	(Dec 2023 ~ To date)	University of Engineering and Technology, Lahore, Pakistan.
	(Dec 2015 ~ Aug 2020)	

- Teaching to undergraduate and postgraduate engineering students,
- Supervising and co-supervising undergraduate final year projects and postgraduate students research thesis,
- Heading 'Renewable Energy Laboratory' and 'Thermal Sciences Laboratory',
- Responsible for multiple administrative duties, including department secretary to Chairman of the department for managing departmental meetings, documentation files, financial particulars, and professional activities,
- Member of the 'Outcome based Education (OBE)' committee to ensure high quality education in the department according to the Washington Accord standards.

✚ **Research Associate** (July 2015 ~ Nov 2015)

City University of Hong Kong, Hong Kong.

✚ **Lecturer** (Feb 2015 ~ Jun 2015)

COMSATS Institute of Information Technology, Pakistan

TECHNICAL SKILLS

✚ Simulation/ Modelling Tools	RETScreen LEAP	TRNSYS SAM-NREL	MATLAB TIMES	Python SPSS
✚ Other Tools	MS Office (Word, Excel, Power point, Visio), Origin, EndNote			

INTERNATIONAL COURSES (On-Line)

- ✚ ‘ENERGY: Energy Technology and Policy’ from The University of Texas at Austin, USA. ([Link](#))
- ✚ ‘Principles of Written English’ from University of California, Berkeley USA. ([Link](#))

WORKSHOPS/ SEMINARS (Selected)

- ✚ **Co-Chairman** of organizing committee for ‘Industrial and Systems Engineering (ISE) Research Student Conference 2023’, held at The Hong Kong Polytechnic University (December 2023).
- ✚ Conducted Continuing Professional Development (CPD) workshop as a **featured speaker** on ‘Renewable Energy & Its Future in Pakistan’ (October 2017).
- ✚ Conducted Continuing Professional Development (CPD) workshop as a **featured speaker** on ‘Renewable Energy Systems Modelling/ Simulation’ (November 2019).
- ✚ Attended ‘**Summer School in Energy**’ at U.S-Pakistan Center for Advanced Studies in Energy (USPCAS-E), NUST [21st – 31st July, 2019].
- ✚ 3-Days Workshop on “**ANSYS FLUENT**”, Organized by Center of Advanced Modelling and Simulation (CAMS), IST, Pakistan in collaboration with ANSYS USA.
- ✚ Workshop on “**Role of QECs in Higher Education Institutions**”, Organized by University of Engineering and Technology Lahore,
- ✚ Workshop on “**Solar Applications**”, organized by Centre for Energy Systems- Centre for Advanced Studies (CES-CAS) NUST in collaboration with German expert on industry solar applications.
- ✚ Workshop on “**Energy Audit of Buildings**”, organized by Pakistan Engineering Council (PEC) at EME College, NUST, Islamabad.
- ✚ Workshop on “**Science, Technology and Engineering for Development**”, held at COMSATS Institute of Information Technology Islamabad by U.S Science Envoy in collaboration with U.S Embassy in Pakistan.

SOCIETAL ACTIVITIES (Selected)

- ✚ Motivational Speaker
- ✚ HR-Executive member in NUST Science Society
- ✚ Member of Society of Mechanical Engineers of Pakistan (SMEP)
- ✚ Regular position holder in Speech competition during school & college period
- ✚ Member of International Society for Development and Sustainability (ISDS), Japan. [Membership ID: M171609]
- ✚ Elected as ‘Research Postgraduate Student Member’ of the Faculty Board of Engineering, The Hong Kong Polytechnic University

EXTRA CURRICULAR ACTIVITIES

- ✚ Chess Player, Good Player of Cricket
- ✚ Technical Magazine reader, Literary and Social Activities

REFERENCES

Dr. Jingzheng Ren	Jingzheng.jz.ren@polyu.edu.hk	Associate Professor (Ph.D. Supervisor), Department of Industrial and Systems Engineering, The Hong Kong Polytechnic University, Hong Kong.
Prof. Dr. Adeel Waqas	adeel@casen.nust.edu.pk	Professor / Principal (Master’s Supervisor), U.S.-Pakistan Center for Advanced Studies in Energy, National University of Sciences & Technology, Pakistan.

Dr. H. Farhan Maqbool

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Associate Professor/ Chairman,
Department of Mechanical, Mechatronics, &
Manufacturing Engineering,
University of Engineering and Technology, Lahore,
Faisalabad Campus, Faisalabad, Pakistan.