

Muhammad Ayaz, PhD

ECONOMIST · DEVELOPMENT/AGRICULTURAL ECONOMICS

Appt 23, Residence le manior, 2 cours Iyautey, 64000 Pau, France

☎ +33 7 53 90 33 56 | ✉ m.ayaz@univ-pau.fr & ayaznasar@gmail.com | 📱 ayaz-khan-12b0b780

Summary

Doctorate in Economics from University of Pau France (2022) with research interests in Development, Agriculture and Applied microeconomics, particularly on issues related to agricultural farm- and labour-productivity, environmental issues, food insecurity, poverty, and inequality. I have a good experience of publishing in leading research journals and presenting the research outcomes in international conferences, seminars, and on social media networks.

Education

Doctorate in Economics

UNIVERSITE DE PAU ET DES PAYS DE L'ADOUR, FRANCE

Pau, France

Oct. 2018 - Sept. 2022

- Thesis title : "Essays on Agricultural Land Distribution and Farm Productivity in Pakistan"
- Specialization: Agriculture and Development Economics

Secured First Class, third Position

(Karachi, Pakistan)

M.Phil. in Applied Economics

APPLIED ECONOMICS RESEARCH CENTRE (AERC), UNIVERSITY OF KARACHI

Jan. 2010 - Jun. 2014

- Took 14 courses including but not limited to Econometrics, Mathematics for Economists, Research Methodology, Microeconomics, Macroeconomics.

Secured First Class, Second Position

(Quetta, Pakistan)

Master in Economics

UNIVERSITY OF BALOCHISTAN

March. 2007 - Feb. 2009

- Took courses including but not limited to Research Methodology, Microeconomics, Macroeconomics, Mathematical Economics, Statistics.

Work Experience

Department of Economics, University of Balochistan Quetta.

ASSISTANT PROFESSOR

Quetta, Pakistan

Aug. 2017 - Sept. 2025

The position involves research, policy analysis, research supervision, teaching, training, and curriculum development at undergraduate, graduate, postgraduate levels

Ekllore-ed School of Management, France.

MOPGA POST DOCTORATE RESEARCH FELLOW

Pau, France

Feb. 2023 - Sept. 2025

- Research Title: Climate Change and Achievement of Sustainable Development Goals (SDGs): Evidence from the 2022 Pakistan Floods.
- Duties performed: In this research project, I investigated complex connections that exist between flood risk, climate change, and sustainable development in Pakistan's riverine regions. The project intends to increase the understanding the dynamics of flood risk and its implications for the achievement of sustainable development goals, particularly on gender gaps in education, poverty, and spatial inequalities.

Department of Economics, University of Balochistan Quetta.

LECTURER

Quetta, Pakistan

March. 2012 - Aug. 2017

The position involves research, policy analysis, research supervision, teaching, training, and curriculum development at undergraduate, graduate, postgraduate levels

Balochistan University of Information Technology and Management Sciences

VISITING FACULTY

Quetta, Pakistan

Nov. 2022 - May. 2023

The position involves part-time research supervision and teaching specialized subjects at graduate level

SBK Women University, Quetta

VISITING FACULTY

Quetta, Pakistan

Jul. 2015 - May. 2017

The position involves part-time research supervision and teaching specialized subjects at graduate level

Alhamed Islamic University, Quetta

LECTURER

Quetta, Pakistan

March. 2011 - March. 2012

The position involves research, policy analysis, research supervision, teaching, training, and curriculum development at undergraduate at graduate levels.

Consultancies and Field experience

Micon Engineering Consultants

ECONOMIST & URBAN DEVELOPMENT EXPERT

- Project Title: Preparation of Development Master Plans of Major Secondary Cities of Sindh.
- Preparation of comprehensive Strategic Development Plan Report for the cities
- Preparation of cities' detailed Economic Development Plan Report
- Preparation of Tourism Development Plan for Sehwan district
- Current assessment and Implementation Plan of Sustainable Development Goals (SDGs)

Client: Government of Sindh

Jun. 2025 - Jun. 2026

Micon Engineering Consultants

ECONOMIST & ASSOCIATE RESEARCH CONSULTANT

- Project Title: Feasibility studies for promotion of tourism in Balochistan.
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Client: Government of Balochistan

Dec. 2022 - July. 2024

Application Europeenne de Technologies et de Services (Aets), France

RESEARCH CONSULTANT/TECHNICAL EXPERT

- Project Title: Developing a feasibility study for Rural Economic Development in Pakistan
- Preparation of strategy for rural economic development farm households using microfinance credits instruments

Client: Pakistan Microfinance
Investment Company (PMIC)

2024

Balochistan Education Foundation (BEF)

RESEARCH CONSULTANT

- Project Title: Developing Research Design and Conducting a research study on analyzing the factors contributing to children educational learning in BEF Community Schools .
- Preparation of Randomize Control Trails (RCT) type Survey design for analyzing the effectiveness of specialize training for teachers in BEF community schools
- Preparation of Structured questionnaires and measures for assessment of learning outcomes
- Preparation of Research design and methods of data analysis

Client: BEF, Government of
Balochistan

Jun.2024 - July. 2024

Innovative Development Strategies PVT Limited

DATA ANALYST

- Project Title : Empowerment of Pakistan.
- Conducting Survey, organizing Focus Group Discussion (FGDs) with stakeholders.
- Data Compilation and Data analysis.

Client: USAID

2009

Publications

**Ayaz, M., & Mughal, M. (2024). *Farm-size and Productivity - The Role of Family Labor*
Economic Development and Cultural Change, 72(2), 959–995.**

Rank:4* CNRS-1

First Author

**Ali, U., Mughal., Ayaz, M., & Ahmed (2024)* Migrant remittances and the adoption of
information and communication technology*,*Information Economics and Policy*, 68,
101101.**

Rank:3* CNRS-2

Third Author

**Ayaz, M., & Mughal, M. (2023). *Land Inequality and Landlessness in Pakistan:
Measuring The Diverse Nature of Land disparities* *Land Use Policy*, 131, 106720**

Rank:2* ABDC-A, ABS-2

First Author

**Ayaz, M., & Mughal, M. (2022). *The Role Of Family Workers' Reluctance To Work On
Away Farms In Determining The Farm Size And Productivity Relationship* *Development
Economics Review*, 31, pp 119-125.**

Rank:2* CNRS-3

First Author

**Asghar, M., Ayaz, M., & Ali, S. (2025). *Ecological Sustainability in Environmentally
Failed States: Analysing the Role of Urban Land Use and Policy and Institutions for
Environmental Sustainability* *Land Use Policy*, 151, 107492.**

Rank: 2* ABDC-A, ABS-2

Second Author

**Ayaz, M., Sers, Charlotte., Maisonnave, H., & Mughal, M. (2023). *Collateral damage ?
Welfare Effects of The Ukraine War on Pakistan* *World Development Sustainability*,
100082.**

First Author

Book Chapters

Ayaz, M., & Mughal, M. (2022). **Climate Disasters and Sustainability Challenges: A Way Forward in Industry 4.0** *The Palgrave Handbook of Green Finance for Sustainable Development*.

Palgrave Macmillan, Cham.

First Author

Brun, M., Ayaz, M., & Mughal, M. (2025). **Pakistan, a future food and agricultural power in 2050?** *Feeding 2050: from fiction to reality*, pp 275-298.

IRIS Club Déméter 2025

Second Author

Working Papers

Ayaz, M., Martin, H., Maisonnave, H., & Mughal, M. (2024). **Gender-specific effects of Russia-Ukraine conflict - Evidence from South Africa** HAL Id: hal-04535835

First Author

Ayaz, M., et al. (2022). **Echo Of The Cannons ? Economic Impact of the Ukraine War on Pakistan -A macro-Micro Simulation Analysis** hal-03718240

First Author

Ayaz, M., & Mughal, M. (2023). **Land Inequality and Landlessness in Pakistan** HAL Id: hal-04004784

First Author

Ayaz, M., & Mughal, M. (2022). **Farm-size and Productivity - The Role of Family Labor** HAL Id: hal-03669234

First Author

Articles Under Review

Ayaz, M., & Mughal, M. (2022). **Unlocking the Puzzle of Farm Labor productivity Inequalities : Insights from Pakistan** submitted in *Agricultural Economics*

First Author

Rank:3* CNRS-2

Ayaz, M., & Mughal, M. (2022). **Gender-specific effects of Russia-Ukraine conflict - Evidence from South Africa** submitted in *World Development*

First Author

Rank: 4* CNRS-1

Work in Progress

**From Floods to Classrooms : Understanding Gendered Effects of Climate Change on Education in Pakistan.*

First Author

**Rising Tides, Sinking Goals : Unravelling the Impact of 2022 Floods on Pakistan's Achievement of Sustainable Development Goals.*

First Author

Conferences

59th Annual Meeting of the Canadian Economic Association (CEA)

Québec, Canada

ORAL PRESENTATION AT DEPARTMENT OF ECONOMICS "UNIVERSITÉ DU QUÉBEC"

May. 2025

72th Annual meeting and congress of the French Economic Association (AFSE)

Bordeaux, France

ORAL PRESENTATION AT BORDEAUX SCHOOL OF ECONOMICS "UNIVERSITÉ DE BORDEAUX"

Jun. 2024

71th Annual meeting and congress of the French Economic Association (AFSE)

Paris, France

ORAL PRESENTATION AT DEPARTMENT OF ECONOMICS "SCIENCES PO PARIS"

Jun. 2023

36th AGM and Conference of Pakistan Society of Development Economists (PSDE)

Quetta, Pakistan

DISCUSSANT "BALOCHISTAN UNIVERSITY OF INFORMATION TECHNOLOGY, ENGINEERING AND MANAGEMENT SCIENCES"

November. 2022

56th Annual Meeting of the Canadian Economic Association (CEA)

ORAL PRESENTATION AT DEPARTMENT OF ECONOMICS "CARLETON UNIVERSITY, OTTAWA"

Ontario, Canada

Jun. 2022

International Conference on Development Economics (AFEDEV)

ORAL PRESENTATION AT "CENTRE D'ÉTUDES ET DE RECHERCHES SUR LE DÉVELOPPEMENT INTERNATIONAL (CERDI)"

Clermont-Ferrand, France

July. 2022

10th The Migration conference (TMC)

ORAL PRESENTATION AT FACULTY OF LAW, ECONOMIC AND SOCIAL SCIENCES AGDAL OF MOHAMMAD V UNIVERSITY"

Rabat, Morocco

September. 2022

70th Annual meeting and congress of the French Economic Association (AFSE)

ORAL PRESENTATION AT "LABORATOIRE D'ECONOMIE DE DIJON, UNIVERSITY OF BOURGOGNE"

Dijon, France

Jun. 2022

55th Annual Meeting of the Canadian Economic Association (CEA)

ORAL PRESENTATION AT DEPARTMENT OF ECONOMICS "SIMON FRASER UNIVERSITY BRITISH COLUMBIA"

British Columbia, Canada

Jun. 2021

30th AGM and Conference of Pakistan Society of Development Economists (PSDE)

ATTENDEE, ORGANIZED AT "PAK-CHINA FRIENDSHIP CENTER"

Islamabad, Pakistan

December. 2014

Seminars

Agriculture and Developing World: Importance and Challenges

PRESENTED AT "WESTMINSTER INTERNATIONAL UNIVERSITY"

Tashkent, Uzbekistan

November. 2021

Farm Size and Productivity - The Role of Family labor

PRESENTED AT "INSTITUTE DE RECHERCHE EN MANAGEMENT ET EN PRATIQUES D'ENTREPRISES, ESC PAU BUSINESS SCHOOL"

Pau, France

July. 2021

Farm Size and Productivity - The Role of Family labor

PRESENTED IN DEVELOPMENT ECONOMICS SEMINAR AT "WESTMINSTER INTERNATIONAL UNIVERSITY"

Tashkent, Uzbekistan

April. 2021

Research Supervision

PhD Co-advisor,

- I am acting as co-advisor of two PhD students at the Universite de Pau et des Pays de l'Adour, France.
- Boubacar Cande, thesis title : 'Crop Choice and Labour Productivity of Small- holder Farms in Senegal'.
- Safiatou Ouatarra, thesis title : 'Livestock Farming and Food Security among Smallholder Farms in Cote d'Ivoire'.

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Co-advisor
(2024-to-date)

Co-advisor
(2024-to-date)

Advisor of M.Phil/MS (Bac+5) students,

- Kalsoom Abdullah, thesis title:'Impact of Income Inequality on Economic Growth: A meta-analytical Literature survey.
- Malika Ali, thesis title:'Economic Sanctions' Impact on Poverty and Income Inequality: A Case Study of 68 Targeted Countries.
- Muhammad Tariq, thesis title: 'The Impact of Debt and Equity based Capital Inflows on Macroeconomic Performance of Pakistan'.
- Muhammad Ashraf, thesis title: 'Impact of Climate Change On Agricultural Productivity Of Balochistan (Cash Crops).
- In addition, I supervised around 50 Bachelor students' research projects submitted for partial fulfilment of Bachelor's degree in economics.

Principle-advisor
(2015-2017)

Principle-advisor
(2017-2019)

Principle-advisor
(2014-2016)

Co-Advisor
(2014-2016)

Principle-advisor
(2012-2025)

Teaching and Academic Responsibilities

I have 12 years of teaching experience at various universities as a Lecturer and Assistant Professor. I taught a wide range of courses to Bachelor, Master, and MS/M.Phil. students. The detail of courses taught are listed below:

M.Phil./MS (Bac+5) courses,	
• Agriculture and Resource Economics, Balochistan University of Information Technology and Management Sciences (BUIITEMS)	2022–2023 2015–2018
• Basic Econometrics, Advance Econometrics, Applied Econometrics, Advance Microeconomics, University of Balochistan, Quetta, 2015-2018.	----- 2016–2017
• Research methodology, SBK Women University, Quetta, 2016.	
Master courses,	2012–2018 &
• Basic Econometrics, Microeconomics, Development Economics, and Statistics, University of Balochistan, Quetta, from 2012 to 2018 and from 2022 to 2024.	2022–2024
• Research methodology, SBK Women University, Quetta, 2015.	2015–2016
• Econometrics, SBK Women University, Quetta, 2014.	2014–2015
BS courses,	2015–2016
• Applied Economics, SBK Women University, Quetta, 2016.	
• Public Finance and Economics, Alhamed Islamic University, Quetta, 2011.	2011–2012
Institutional and societal scientific Contribution,	
• I worked as a member of the Department Admission committee for reviewing and monitoring the thesis of M.Phil and PhD students at the Department of Economics, University of Balochistan Quetta.	
• I worked as a Member of the Board of studies department of Economics for curriculum development at graduate and postgraduate level.	
• I worked as a member of Research Ethics Committee for faculty of management sciences at University of Balochistan, Quetta. I developed Research Ethics rules and guidelines for conducting scientific research at the faculty level.	
• I worked as a member of the senate at University of Balochistan, Quetta.	
• Member of Graduate Studies Office, University of Balochistan Quetta (2016-2018).	
• I provided economic and agricultural policy training to Balochistan District Management Group Officers (DMG) at the National Institute of Management, Quetta.	
• I supervised a policy research paper for Balochistan Civil Services Academy trainees (Provincial Management Officers) in Quetta.	
• I appeared on Pakistan Television (PTV) News to foster public awareness on the issues related to the current economic challenges, policy analysis, potential obstacles, and way forward for sustainable economic outlook of Pakistan economy.	

Honors & Awards

INTERNATIONAL

2023	Post Doctorate Fellowship Award , Make Our Planet Great Again (MOPGA)	<i>Pau, France</i>
2021	International Doctoral Mobility Award , E2S, UPPA, France	<i>Pau, France</i>

DOMESTIC

2018	Doctorate Scholarship Award , Higher Education Commission of Pakistan	<i>Islamabad, Pakistan</i>
2018	Best Teacher Award , University of Balochistan	<i>Quetta, Pakistan</i>
2011	Third Position , M.Phil. course work Exam, Applied Economic Research Centre, University of Karachi	<i>Karachi, Pakistan</i>
2009	Second Position , Master of Economics final examination, University of Balochistan	<i>Quetta, Pakistan</i>

Certification and Analytical Research Skills

2015-2025	Statistical Software , STATA, E-views, R-studio, \LaTeX , Dynare, MS Excel, Python	<i>Certification, Virtual</i>
2025	Strengthening Climate Adaptation and Resilience , organized by German institute GIZ, United nations institute Unitar, and UNCC :Learn	<i>Certification, Virtual</i>
2025	Climate-Smart Agriculture , organized by UN institutes UNITAR and UNCC.	<i>Certification, Virtual</i>
2021	Python programming , Certification Course organized by University of Pau, France.	<i>Pau, France</i>
	QGIS and Google Earth Software , Experience working on QGIS and google earth for treating vector and raster layers for research purposes such as mapping, network analysis, GIS coding, distance measurement, land elevation, land roughness, image classification etc.	<i>Virtual (2018-2025)</i>
	Satellite Imagery & Remote-Sensing Data Analysis , Experience working on satellite imagery such as SRTM, MODIS, Land-sat data, Open street map, Sentinel-1 and sentinel-2 for research purposes related to land (surface, underground), water (canals, rivers, and sea), and atmosphere/air.	<i>Virtual (2018-2025)</i>
	SNAP software , Experience working on SNAP software for flood mapping, crop classification, land-use, land-cover, vegetation cover, water bodies, etc.	<i>Virtual (2018-2025)</i>

Linguistic competence

English,
French,
Persian,
Urdu, National Language
Pushto, Mother Tongue

Advance-C2
Intermediate-B1
Intermediate-B1
Advance
Advance

Contact Details of Referees

Prof. Mazhar Yasin Mughal, Professor of Economics, Eklore-ed School of Management Pau France and UMR TREE, Universite de Pau et pays de l'Adour (UPPA) France. Email: mazhar.mughal@esc-pau.fr & mymughal1@hotmail.com

CONTACT DETAILS
+33(0)684192227

Prof. Charlotte FONTAN SERS, Professor of Economics and Dean of the faculty Head of MBA Sustainability in Marketing and Management, Eklore-ed School of Management, Rue Saint John Perse, Pau (64000) France. Email address: CHARLOTTE.SERS@esc-pau.fr

+33 76 44 61 78 7

Prof. Hélène Maisonnave, Professor in Economics, Université Le Havre Normandie, EDEHN UR 7263, Le Havre, France. Web page: <https://ede hn.univ-lehavre.fr/spip.php?article107>

helene.maisonnave@univ-lehavre.fr