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I hold a doctorate in Economics (defending in September 2024) and have over four years of experience specializing in the analysis of large datasets using advanced computational techniques. I am interested in applying and adapting theoretical models to real-world data. My research interests are applied econometrics, game-theoretic modelling and experiments.

Education

PhD Development Economics

INSTITUT DE HAUTES ÉTUDES INTERNATIONALES ET DU DÉVELOPPEMENT

Master of Development Economics

THE UNIVERSITY OF QUEENSLAND

Bachelor of Business Administration (Finance)

INSTITUTE OF BUSINESS ADMINISTRATION

Geneva, Switzerland

2017 - 2024

Brisbane, Australia

2010 - 2012

Karachi, Pakistan

2005-2009

Work Experience __

Research

Research Assistant Geneva, Switzerland

THE INTREPID PROJECT, INSTITUT DE HAUTES ÉTUDES INTERNATIONALES ET DU DÉVELOPPEMENT

• Responsible for creation and initial analysis of the dataset for Natural Language Processing- BERT.

Research Associate Brisbane, Australia

SCHOOL OF ECONOMICS, UNIVERSITY OF QUEENSLAND

2013-2014

February 2019- January 2023

- · Associated with Australian Government grants on the impact of optimal emissions taxation, carbon markets, green technology and water rights on firms.
- Responsible for maintaining databases of (i) energy commodities and (ii) university rankings.
- Coordinated laboratory experiments concerning auctions and signalling.

Teachina

Workshop Instructor Geneva, Switzerland

INSTITUT DE HAUTES ÉTUDES INTERNATIONALES ET DU DÉVELOPPEMENT

April 2024 - May 2024

• Designed and implemented a doctoral workshop on Structural Estimation.

Research Mentor Geneva Switzerland

SMITH COLLEGE

Teaching Assistant

February 2023 - Present

• Supervising undergraduate data science students' research practicum.

INSTITUT DE HAUTES ÉTUDES INTERNATIONALES ET DU DÉVELOPPEMENT

Geneva, Switzerland February 2023 -2024

- Supervising policy-relevant research by graduate student in collaboration with international organizations. Partner organizations include United Nations Human Settlements Programme, The Office of the High Commissioner for Human Rights, International Code of Conduct Association, Institute for State Effectiveness and Edgelands Institute.
- Teaching assistant for courses Dynamic Stochastic General Equilibrium (DSGE) Models, Introduction to Text Analysis and Introduction to Statistics.

Lecturer Karachi, Pakistan

THE INSTITUTE OF BUSINESS MANAGEMENT

August 2015- July 2017

· Coordinated and taught Macroeconomics, Microeconomics, Statistics and policy courses.

Business Experience

Consultant Karachi, Pakistan

INSTITUTE OF BUSINESS ADMINISTRATION

• In-charge of designing, implementing and analysing market surveys for commercial clients.

Contributed to the statistical report concerning the impact of natural disasters on the export commodities of Pakistan for a report presented at the Sri Lankan Chamber of Commerce.

Econometric Code

MIMIC Model with Discrete Indicators

REPOSITORY 2024

· R script for implementing multiple-indicator, multiple-cause (MIMIC) modelling with discrete indicators with support for bootstrapping. Available at: https://github.com/mariakamran86/MIMIC Modeling Discrete Indicators R

Research Papers_

A Touch of Violence - Welfare Outcomes under Bride Exchange and Child Brides

PhD Dissertation Paper 1-Job Market Paper

- IHEID Working Papers 12-2022, Economics Section, The Graduate Institute of International Studies. Link: https://ideas.repec.org/p/ gii/giihei/heidwp12-2022.html
- Presented at Young Swiss Economists Meeting 2022, ETH Zurich; SSES Annual Congress 2022 University of Fribourg; International Association for Applied Econometrics 2022, King's College; Brown Bag Lunch IHEID 2022.

The Economic Growth Dilemma- Navigating Population Policies and Emissions Permits

PhD Dissertation Paper 2 2023

• Brown Bag Lunch, 2021, Geneva Graduate Institute, Switzerland.

Hot Flashes- Theory and Empirics of Optimal Menopause

PhD Dissertation Paper 3 2024

• Presented at Brown Bag Lunch IHEID 2022.

Competencies

Inequality and Intergenerational Mobility; Underlying Drivers and Policy Solutions

Gerzensee Switzerland

STUDY CENTER GERZENSEE

Introduction to Geographical Information System Methods in Economics

Geneva, Switzerland

INSTITUT DE HAUTES ÉTUDES INTERNATIONALES ET DU DÉVELOPPEMENT

Geneva, Switzerland

Economic Development: Modelling and Structural Estimation

2021

Université de Genève Computational Methods for Economists: Text Analysis and Agent-Based Models

Laussane, Switzerland

THE ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE

Treatment Effects by Prof. Jeffrey Wooldridge (University of California, San Diego)

Geneva, Switzerland

Université de Genève

2018

Expertise

Languages: - English (Native), French (B1), , Urdu (Native).

Technical: Rstudios (Machine Learning with TMLE-SL, BART and BERT), Python, STATA, SQL, Matlab, Mathematica, SPSS, Dynare.

References

Professor Ugo Panizza

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Department of International Economics

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Professor Jean-Louis Arcand, President

The Global Development Network Email: jlarcand@gdn.int

Professor David Sylvan

Institut de hautes études internationales et du développement Department of International Relations and Political Science

Email: david.sylvan@graduateinstitute.ch