

# Ammazia Hanif

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## Education

Ph.D. Candidate, International Public Policy, University of Tsukuba (April 2022- March 2025 expected).  
Master of International Public Policy, University of Tsukuba, 2022.  
Masters in Business Administration (MBA), University of Central Punjab, Pakistan, 2007.

## Research Fields

Health Economics, Development Economics, Environmental Economics

## Professional Experience (Pakistan)

### Planning & Development Department Punjab (June 2015-2020)

Planning Officer/Assistant Director

#### Job Specification

- Formulation of Sectoral Annual Development Plan (ADP)
- Managing the Water Supply & Sanitation Sector in the P&D Department in coordination with the Public Health Engineering Department (PHED).
- Coordinating participatory meetings of foreign investors e.g. World Bank, UNICEF, and Water Aid regarding sectoral policies review and upgradation of the WATSAN Sector.

### United Bank Limited (Sep 2006- Jan 2012)

Customer Services Operations Manager (CSOM)

#### Job Specification

- Manage and monitor all operations of the branch.
- Responsible for Branch SBP, Central and Internal Audit
- Ensure that all Bank's applicable policies & SBP regulations/guidelines are adhered to.
- Manage all commercial & operational activities of the branch, to meet all assigned targets & to keep all expenses within budget.

## Research and Teaching Experience (Japan)

- Subject Teacher Economics. Liberty International School, Tsukuba (Sep 2021- Mar 2022).
- Teaching Assistant, Globalization, University of Tsukuba, Spring 2022.
- Teaching Assistant, Microeconomics, University of Tsukuba, Spring 2023.
- Teaching Assistant, Data Science for Social Science, University of Tsukuba, Spring 2024.
- Teaching Assistant, Introduction to Geographic Information Systems (GIS), University of Tsukuba, Fall 2024.
- Research assistant under development projects for statistical tasks, literature review, and research-related ancillary work at JIRCAS, Tsukuba (August 2022- March 2024).
- Research assistant for "Impact Evaluation of the Toilet Construction on People's Well-being in Madagascar" at the University of Tsukuba (June 2022- present).

- Research assistant for “Impact evaluation of Violence Act, 2016 on women’s attitude towards violence in Pakistan” at Ritsumaikan University, Osaka (July 2022- August 2023).
- Research assistant for “Capacity of Commune Health Centers to Provide Primary Healthcare Services under Post-COVID-19 Conditions in Phnom Penh, Cambodia” at the University of Tsukuba (February 2024).

## Publications

Hanif, Ammazia, Yuko Nakano, and Midori Matsushima.2024. “The Benefit of Clean Water on Child Health: An Empirical Analysis with Specific Reference to Escherichia Coli Water Contamination”. *Water Resources and Economics* 47:100249. <https://doi.org/10.1016/j.wre.2024.100249>.

## Working Paper

### **The Impact of Access to Improved Sanitation Facilities on Child Health in Pakistan.**

**Abstract:** Poor sanitation is a major public health issue linked to various significant health outcomes. Improving sanitation is determined by household decisions, which may induce endogeneity. Using the Pakistan Demographic and Health Survey data, we examine the impact of improved sanitation on children’s height-for-age, weight-for-age, weight-for-height z scores, and diarrhoea. We address potential endogeneity using an instrumental variable approach. The improved sanitation was found to affect children’s growth positively and significantly, mainly height-for-age and weight-for-age in those under five years old. In contrast, no significant impact was identified on weight-for-height and diarrhoea. The sub-sample analysis showed that particularly girls, children older than two years, and children with uneducated mothers are positively and significantly affected by access to improved sanitation facilities.

## Work in Progress

- **Effects of Community-Level Sanitation on Women Anemia: Evidence from Sub-Saharan Africa** (with Yuko Nakano and Midori Matsushima)(*Submitted to World Development*)

**Abstract:** Anemia affects over 30% of women globally, with severe health and economic consequences, particularly in Sub-Saharan Africa (SSA). This study examines the impact of community-level sanitation on women’s hemoglobin levels in ten SSA countries, using unique geocoded panel data and an instrumental variable design with fixed effects estimations. Findings reveal that a 100-percentage point reduction in community open defecation increases women’s hemoglobin levels by 0.750 g/dL. The effects are more pronounced among non-pregnant women, those residing in urban areas, and across all economic strata, including wealthier households. The results also highlight the spillover effects of community-level sanitation behaviour, showing that the observed hemoglobin advantage accrues to women even where households have access to sanitation facilities. This underscores the importance of community-level behaviour change in improving health outcomes

- **Health of pregnant women: Its association with pregnant women and health workers' behavioral preferences** (with Midori Matsushima and Shusaku Sasaki)

**Abstract:** This study examines how pregnant women’s risk and time preferences as well as pregnant women-health workers’ preference differences affect treatment and health outcomes. Using data from 361 pregnant women and 314 health workers in Cambodia,

lower and significant risk tolerance scores for pregnant women than health workers are found. For time preferences, health workers are more patient and less procrastinate. A risk taker has lower systolic blood pressure, procrastinating individuals have lower healthcare satisfaction and a higher probability of losing their baby during pregnancy or at the newborn. Impatience is not related to any treatment and health outcomes. Pregnant women-health workers' difference in risk and procrastination affects both treatment and health outcomes. When health workers are more risk averse, the health outcome of pregnant women becomes better in terms of blood pressure and the death of the baby. For procrastination, the results are mixed, and what is apparent is that differences matter.

- Sanitation, Socioeconomic Disparities, and Child Anemia: Evidence from Sub-Saharan Africa (Ammazia Hanif)
- Potential Applications of Facial Expression Analysis in Development Studies: A Case Study in Rural Women in Madagascar (with Hiroyuki Yamada, Midori Matsushima, Tamao Isono, and Haruka Ikemoto)

### **Research Project Field Visit**

Field visit to Madagascar for follow-up survey under project "Impact Evaluation of the Toilet Construction on People's Well-being" during May 2023.

### **Scholarships, Awards, and Training**

- Japan Society for the Promotion of Science (JSPS) Specialized researcher-DC2 Fellowship 2024-2026
- Kubota Fund, 2023-2024
- Tsukuba Scholarship, 2022-2023
- SWET 2023 presentation, Otaru travel grant
- Joint Japan World Bank Scholarship, 2020-2022
- Outstanding Masters' Thesis Award, PEPP program University of Tsukuba, 2022
- JICA-IUJ Program -Understanding Japanese Development Experience, 2022
- AARDO international training on "Irrigation System & Water Management in Pakistan" (January 2020)
- Training on Project Preparation & Appraisal to enhance research skills (August 2018)
- International job Training – 21-day Bilateral Seminar in China. (July 2018)

### **Seminar and Conference Presentations (including scheduled)**

- 2025:** 7<sup>th</sup> Japan Association for Development Economics (JADE) Conference, 2025 (scheduled), JSPS -16<sup>th</sup> Hope meeting with Nobel Laureates, March 2025.
- 2024:** AERE@OSWEET(Association of Environmental and Resource Economists) virtual event, AFES (Africa meeting of econometric society) conference, JADE x JTREE Joint Workshop, Japanese Economics Association (JEA) spring meeting, 58<sup>th</sup> Canadian Economic Association (CEA) conference, PEPP special seminar, PP Lunch Seminars, University of Tsukuba.
- 2023:** Japan Health Economic Association (JHEA) Conference 2023, Japanese Economics Association (JEA) spring meeting, 57<sup>th</sup> Canadian Economic Association (CEA) conference, Asian Economic Development Conference 2023 (AEDC), University of Tokyo, SWET 2023 presentation, Otaru, Chiba University, Seminar on Water Economics OLLine (SWELL series), PEPP Lunch Seminars, University of Tsukuba.

**2022:** Young JADE-Japan Association for Development Economics (JADE) conference, Waseda University, Jinsha Graduate Students Online Presentation Competition, University of Tsukuba.

### **Refereeing**

*Water resources and economics*

### **Others (Skills)**

Stata, QGIS, R (basic), LaTeX, Google Earth Engine (basic), Questionnaire Development.

### **References**

#### **Professor Yuko Nakano**

Professor  
Development Economics  
Institute of Humanities and  
Social Sciences  
University of Tsukuba

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#### **Professor Midori Matsushima**

Associate Professor  
Health Economics  
Institute of Humanities and  
Social Sciences  
University of Tsukuba

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#### **Professor Fatwa Ramdani**

Assistant Professor  
GIS, Earth Science  
Institute of Humanities and  
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University of Tsukuba

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