

# Curriculum Vitae Amanat Ullah Khan



## I. PERSONAL DATA

**Name** : **A.M.M. AMANAT ULLAH KHAN**  
**Date of birth** : January 1, 1951  
**Nationality** : Bangladeshi  
**Personal address** : Professor (Retired), Department of Geography and Environment  
University of Dhaka  
Cell: 01819243104  
E-mail: [amanat.ullah@gmail.com](mailto:amanat.ullah@gmail.com), amanat.ullah@bup.edu.bd  
**Mail Address** : Apt A-6, Eastern Dahlia, House 405 – C Dhanmondi Road 27 (old).  
Dhaka, Bangladesh

## I. EDUCATION

- **Ph.D** in Geography, **Kent State University, Kent, Ohio, U.S.A, 1987.**  
**Ph.D Dissertation: “Industrial Entrepreneurship in Dhaka City, Supervisor: Professor Brian P. Holly.**
- **M.A.** in Geography, **Simon Fraser University, Burnaby, BC. Canada, 1981.**  
**MA Thesis: “Manufacturing Diversification in the Vancouver Metropolitan Area”, Supervisor: Professor Roger Hayter.**
- **M.Sc.** in Geography, University of Dhaka, Dhaka, Bangladesh, 1973.  
**M.Sc. Thesis: “Land Value Pattern in Dhaka City.” Supervisor: Professor Nazrul Islam.**
- **B.Sc. (Hons)** in Geography with Geology & Soil Science as minor subjects, University of Dhaka, Bangladesh 1972.

## II. OTHER TRAINING

- GIS & Remote Sensing in Disaster Management, **Indian Institute of Remote Sensing**, Dehradun, 2009.
- Healthy Cities Training Course, Organized by **SEARO, WHO**, held at Bangkok, Thailand, November, 1997
- Urban Health in Developing Countries, **London School of Hygiene & Tropical Medicine**, London, U.K., 1991.
- Geographical Information System (GIS), Application of GIS in Health Issues, **Portsmouth University U.K.**,
  
- 8th Summer Seminar on Population, **East West Centre, Honolulu, Hawaii, USA, 1977**
- Completed Course for Masters degree in Urban & Regional Planning at the **Bangladesh University of Engineering & Technology**, Dhaka, 1972-1974.
- Various Courses on Computer Data Analysis Including FORTRAN IV, BASIC, DBase III + and LOTUS 123, Visual Basic, Excel, Access, SPSS, Arc/Info, ArcView & ArcGIS, ERDAS.

### III. LANGUAGES & DEGREE OF PROFICIENCY

Language	Speaking	Reading	Writing
Bengali		Mother Tongue	
English	Excellent	Excellent	Excellent
Arabic	Poor, (Learning)	Good, (Learning)	Good, (Learning)

### IV. MEMBERSHIP IN PROFESSIONAL SOCIETIES

- Student Member, **Association of American Geographers, 1984-86.**
- Member, **Bangladesh Geographical Society**, Since 1973.
- Founder Member, **Centre for Urban Studies**, Dhaka.
- President, **Bangladesh Geographical Society**, (Two Terms) Dhaka, Bangladesh,
- Member, Editorial Board, **Dhaka University Studies**, Science
- Executive Director, **Bangladesh Geographical Society**,
- Past Chairman, **Geographical Solutions Research Center Ltd.** (now defunct).
- Founder President, **Bangladesh Society of Geoinformatics (BSGI)**

### V. SUBJECTS/COURSES TAUGHT AND AREAS OF SPECIALIZATION

- **Ph. D./M. Phil. level:** Industrial Geography, Economic Geography, Medical Geography, GIS and Remote Sensing, Disaster Management and Climate Change, Spatial Data Analyses.
- **Coordinator:** Geoinformatics specialization stream of MS in Geography and Environment (introduced since 2010) – the stream includes courses on Spatial Database Design, GIS Server, WebGIS, Advanced and Applied GIS and Remote Sensing
- **Masters level:** GIS, Remote Sensing, Industrial Geography, Urban Geography, Urbanization, Urban Health, Urban Land Management, Climatology, Climate Change
- **Evening MS Programme in Disaster Management:** offer courses in Climatology and Climate Change, Climate Change Adaptation, GIS and Remote Sensing in Disaster Management
- **Graduate level:** GIS, Remote Sensing, Climatology (Climate Change), Regional Geography, Geomorphology, Research Methods and Field Research Techniques, Land Surveying & Geomatics.
- **Areas of Specialization:** GIS and Remote Sensing, Climate Change, Disaster Management, Development Geography, Economic Geography, Urban Geography, Health Geography.

### VI. EMPLOYMENT RECORDS

- **Teaching and Research**

At the Department of Geography and Environment, University of Dhaka

Professor since 1996 Associate Professor (1990), Assistant Professor (1987) and Lecturer (1973)

- **Chairman**, Department of Geography and Environment, University of Dhaka (July 2002 to July 2005)
- **Director**, Disaster Research, Training and Management Centre (DRTMC), University of Dhaka, (**October 2008 to October 2011**). [www.drmtc-du.org](http://www.drmtc-du.org)
- **Guest Faculty**, Institute of Business Administration, University of Dhaka, teaching BBA courses (**2007 to 2016**)

Teaching an introductory course on **Economic Geography** to the BBA (Bachelor of Business Administration) students. Text book currently being used is, Danny Mackinnon and Andrew Cumbers, **Introduction to Economic Geography: Globalization, Uneven Development and Place.**

## Overseas Teaching Experience

- **Teaching Assistant, Simon Fraser University.** Canada: Teaching small undergraduate student groups on Economic Geography, August 1977 to December 1980
- **Part Time Faculty, Department of Mathematics, Kent State University, Kent Ohio, USA,** Teaching College Algebra Advanced Algebra and Calculus, September 1982 to December 1986.
- **Visiting Professor, Department of International Health, Johns Hopkins University, Baltimore, USA, 1992 – 2004** (leading JHU’s consultancy project of Urban Primary Health Care Delivery Project in Bangladesh)
- **Bangladesh Coordinator, INSPIRE Programme, British Council, Strategic Partnership Award, 2010-2013 “HAZARD, RISK AND RESILIENCE IN BANGLADESH”** a joint curriculum development and research effort supported by the British Council between the University of Dhaka (UD) Bangladesh, Jahangirnagar University (JU), Bangladesh, Independent University Bangladesh (IUB) and the Durham University (DU) of United Kingdom. 2010 – 2012.

## VII. RESEARCH AND CONSULTANCY EXPERIENCES

Working for different consulting firms and research organizations and held different positions (National Consultant, Survey Expert, GIS and Data processing Expert, , Project Coordinator, Project Director, Team Leader, and Specialist on a variety of fields like Environmental Specialist, Principal GIS Person etc). Some selected Research Involvements and Consultancy Experiences are cited here-

- **National Consultant for Developing Standard Operating Procedures (SOP) for Use of Space Technology in DRR/CCA for the Comprehensive Disaster Management Programme II, UNDP, Dhaka, Bangladesh,** Consultancy duration is 25/5/2013 to 30/10/2013
- **Baseline survey and mapping of health & education facilities in CHT: UNDP Bangladesh from** November 2009 to October 2010  
**Team Leader:** Leading a team of GIS & Database experts studying the Health & Education Providers/Facilities of the Chittagong Hill Tract (CHT) funded by UNDP. The activities required the collection of the geographic locations of various facilities/providers and an examination of current status of education and health sector of CHT and preparing a Comprehensive GIS database with all the collected information.
- **Assess the state of information systems and facilitate geo-hazard information sharing among GoB and NGO GIS Platforms Project of the Center for Environmental and Geographic Information Services (CEGIS)** From 1<sup>st</sup> June 15<sup>th</sup> August 2008. Funded by CDMP project UNDP.  
**Short Term Consultant:** To prepare national GIS Data policy, metadata standard, data sharing protocol. Prepare clear guideline and implementation plan for the developed policy document.
- **Improving Local Capacity to adapt Safety Net Programs to Climate Change: Assessment of the Experience with Selected Safety Net Programs as Response Mechanisms: A project conducted by DRTMC funded by World Bank.** From October 2009 to June 2010  
**Team Leader:** A project conducted by DRTMC funded by World Bank. The main objective of the research was to study selected safety net programs in the light of their appropriateness, adequacy, equitability, cost-effectiveness, sustainability and adaptation.

- **Detail Area Plan Project (DAP), RAJUK (Part Time)** from March 2006 to March 2008

**GIS Specialist:** A project conducted by RAJUK. As a GIS specialist main responsibility was to review the quality and accuracy of the GIS data supplied by the contractors of the Detailed Area Planning project of RAJUK & Training RAJUK Personal in GIS.
  
- **GIS Database and Mapping preparation of the Kamalapur Demographic Surveillance Area for the ICDDR** from September 2005 to February 2006

**Team Leader:** A project conducted by Geographic Solution Research Centre Ltd. Detailed GIS database and mapping preparation of the ICDDR study area stretching over 10 sq. km area in the kamalapur-Jatrabari area in Dhaka city. The work includes detailed plot to plot and structure to structure mapping and collection of demographic data of the households.
  
- **USAID/ Bangladesh Mission GIS Assessment Survey 2003,** October 2003-January 2003 **GSRC Ltd.**

**Team Leader:** Feasibility Study for a in-mission GIS set-up for USAID, Bangladesh. The study required a thorough study of the available digital spatial data currently available with various organizations in Bangladesh. Mission GIS and MIS requirements were studied and various options were mooted and an option was recommended.
  
- **GIS Database and Mapping; Preparation of 21 Wards and 31 wards of Dhaka City Corporation (DCC)** from November 2004 to July 2005, and from March. 2003 to October 2004

**Team Leader:** A DCC project that was conducted by GSRC. The project was implemented in two phases. GSRC has prepared 21 and 31 wards respectively in two phases. Corporation the phase being funded by World bank DUTP project. The activities include integration of detailed Municipal Tax Assessment Data and Holding (plot) ownership data and detailed plot land use data into a dynamic GIS Database. The Spatial data were prepared basing the detailed DLRS Mauza Maps of the various mauzas falling within the city. The effort required a team of 15 GIS Analysts, 50 Field Investigators and 20 Data Entry personnel and was completed in 10 months
  
- **Mapping Women's Vulnerability in Tangail District : Preparation of GIS Database & Composite Maps for UNFPA, Bangladesh** from November 2003 to December 2003

**Team Leader:** A project conducted by GSRC. Preparation of three sets of composite GIS maps of the Tangail district with the Thanas as data units. The composites were: Thana wise Women's Status, Household Socio-Economic Status and Status of Health Care Facility Utilization. These composites were generated using 10 different maps prepared for the purpose. The data were collected from the field and from secondary sources. The three composites were finally merged into a Composite of the variation of Overall vulnerability of Women in Tangail District. The information generated is to be used by UNFPA in their UNJSMI Project to assign priorities in their programming.
  
- **Monitoring & Evaluation Component, Urban Primary Health Care Project from October 1998 to October 2002**

**Project Director & Visiting Professor (Johns Hopkins University):** The project was conducted by Mitra & Associates in Collaboration with Johns Hopkins University, USA, Major responsibilities was to **monitoring and evaluation** activity involves determination of the indicators of health situation/health care services of the urban poor through conducting baseline community household survey, baseline health facility survey, conducting periodic supervisory surveys with an integrated supervisory instrument development for the purpose. Of the project's various components the provision of PHC through Partnership Agreements in the four largest cities of the country is central. The monitoring and evaluation activity is integral to its efficient performance. The monitoring and evaluation component have an independent status and have been contracted out to a joint association of Mitra & Associates, Dhaka and Johns Hopkins University, USA. In provisioning of primary health care services through Partnership Agreements, the four project cities have been geographically divided into 16 Partnership Areas and the

responsibility of providing the health care services has been leased to bid winning NGO and Municipal health care providers. Each partner is providing the health service by setting up a total of 142 health centers in these cities.

- **STD/HIV/AIDS GIS and Database Development Project** from April 2002 to September 2002  
**Principal Investigator:** The survey was conducted by GSRC Ltd, Funded by Family Health International & USAID, Dhaka. Leading a team of 20 field investigators, GIS analysts and others in a survey of 44 districts in Bangladesh in order to ground truth & update information on the location and characteristics of the HIV/AIDS risk groups, the NGOs working on these risk groups and the nature of the harm reduction activities. The product is a GIS database and a map volume depicting the information.
  
- **Study on Transportation & Regional Growth Pattern in NW to SE Corridor project** from January 2000 to March 2000  
**Survey Expert:** The project was conducted by World Bank. The major objective of the proposed study will be to identify the change and the impacts in the study cities caused by the improvement in traffic movement and the resultant enhanced economic activities along the corridor due to the commissioning of the Jamuna Bridge. The bridge has linked the eastern and western regions of the country. These regions were rather backward due to the physical barrier posed by the mighty Jamuna river. Before commissioning of the bridge the slow economic growth was associated with long procedures of transshipments involving ferries. It is expected that the bridge will provide input to the local economy through supply of natural gas, electricity, roads, railways, reduction in delays and transport costs, strengthening the local markets, movement of people, employment, etc. Impact of these changes on the local economies and potentials for further growth and development along the corridor was studied through the following trend analyses: a) urban growth pattern of the cities; b) commercial structure of the cities; c) mobility, and employment pattern; and d) growth potentials and limitations
  
- **Preparation of Structure Plan, Master Plan and Detail Area Plans for Dhaka and Chittagong - 1990-95 (UNDP No BGD/88/052)** from August 1998 to November 1998  
**National Consultant:** it was an ex-Post Evaluation of the UNDP project. Evaluation of the various components of the two city plans and the study of the actual developments since the plan was prepared. The evaluation methods included the study of all documents and files related to the preparation of the two plans and in depth interviews of officials involved in plan implementation. This was done working closely with Professor Ved Prakash of University of Wisconsin, USA who was the international consultant.
  
- **Coastal & Wetlands Biodiversity Management Project, Department of Environment, GOB** from June 1998 to August 1998  
**GIS & Data Processing Expert:** A government project funded by UNDP. The major responsibilities included the GIS Sub-contractor of the project (Development Design Consultants) to prepare the GIS database for the project.
  
- **Evaluating Petrobangla's Environment, Health & Safety Procedures to prepare Standard Operational Procedures for the Petro Bangla Companies** from June 1997 to December 1997.  
**Associate Environmentalist:** The project was conducted by Bangladesh Engineering & Technological Services Ltd. Member of a study team involved in reviewing. Involved in preparation of environmental related project proposals, follow up project development activities in this sector. Associated in preparing the feasibility reports. Also working as **Training Advisor** of GIS Training Programmes.
  
- **Developed a GIS system for Benefit Monitoring & Evaluation (BME) of the Khulna- Jessore Drainage Rehabilitation Project** from April 1997 to June 1997

**GIS Specialist:** It was a project of Bangladesh Water Development Board (BWDB), conducted by Kranti Associates Ltd. Consulting Firm.

- **Evaluation of the Slum Improvement Project of UNICEF/LGED, from January 1994 to July 1994**

**Team Leader:** The project was conducted by Sodev Consults. Involved in collection of data from 5000 Slum households from 25 Cities. The work involved leading a multi-disciplinary team to evaluate the impact of a slum development project that had components like, the physical and environmental improvement of the project slums, provision of primary health care services within the project slums, income generation components/loans and education for children.

- **Preparation of the `Bangladesh National Report on Situation of Children' for the Ministry of Social Welfare, GOB from March 1993 to September 1993**

**Consultant:** The project was conducted by UNICEF, Dhaka. The country report mandated by the CRC required collection and study of all documents, books and other publications related to the situation of the children in the country, studying the existing laws related to child rights. Talking to the people involved in child rights movements. The input also went into the national policy on children.

- **Urban & Shelter Sector Review: Bangladesh from November 1992 to February 1993**

**National Consultant on Urban Environment UNCHS & GOB:** This was a multi-sectoral review of the urbanization and urban growth problems in Bangladesh. The chapter on the urban environment was contributed by me.

- **Environmental Impact Assessment of Kurigram FCD/I (South Unit) Interventions, from July 1992 to November 1992**

**Environmental Analyst:** The project was conducted by Japan International Cooperation Agency (JICA). Worked as a Flood Control Associate to the International Environmental Project Expert.

- **Mapping project of Graphosman from 1989 to 1994**

**GIS and Cartography Specialist and Environmental Specialist:** As an in house environmental expert provided inputs in all its major projects. Including Final Drawing & Printing Thana Maps, LGED, 1993. The Final Drawing & Printing Thana Maps project involved preparation of detailed maps of the 460 thanas of the country based on Survey of Bangladesh 1:50000 Thana Maps, BW Spot Images and field surveys.

- **Situation of Urban Poor in Bangladesh from 1989 to 1990**

**Consultant:** the study was conducted by Centre for Urban Studies (CUS). Worked as a consultant to CUS for preparation of its report on Situation of the Urban Poor in Bangladesh, provided special inputs in the Health/Nutrition, Employment sectors of the study. The volume on the Health/Nutrition constituted the first report on the urban health and nutrition situation in Bangladesh.

- **Bangladesh: Environmental and Natural Resource Assessment from June 1989 to July 1989**

**Urban Environment Specialist:** The project was conducted by World Resource Institute, Washington, D.C. for USAID, Dhaka for the report. Worked as a member of its consultant group World Resource Institute, Washington DC, prepared a detailed analysis of the state of the urban environment in the country.

- **Dhaka Resettlement Scheme for Urban Squatters from January 1998 to December 1988**

**Consultant:** the project was conducted jointly by Urban Development Directorate and UNDP, Dhaka. Worked as a consultant to UDD to Plan a UNDP, the detailed socio- economic and environmental analysis of the community was required for the work.

## VIII PUBLICATION OF BOOKS, MONOGRAPHS AND REPORTS

- Md. Abdullah Al Baky, Asif M. Zaman, Amanat Ullah Khan, **Flood Management in Watershed: An Approach to Crop Production Risk Management in Bangladesh with Hydraulic and GIS Modeling**, LAP LAMBERT Academic Publishing, 2013, Online Book Link: <https://www.morebooks.de/store/gb/book/flood-management-in-watershed/isbn/978-3-659-36297-2>
- Khan. A.U., Shahnaz H.H., **Dhaka A to Z Street Atlas**, Celebration of 400 Years of Capital Dhaka, The Asiatic Society of Bangladesh, 2011
- Khan. A.U. & Shahnaz H.H. (Eds), **The Food Security Atlas of Bangladesh 2008**, GSRC, DFID & UNWFP, 2010.
- Khan. A.U., Shahnaz H.H. & Momsen. J., **Gender Atlas of Bangladesh**, GSRC Ltd. Dhaka, 2006
- Khan. A.U. & Mosharraf Hossain (Eds), **Graphosman's New Atlas**, Graphosman: Dhaka, 1993, 65 pages.
- Khan. A.U., **Entrepreneurial Decision Process in Bangladesh: A Study of Industrial Location Decision-Making in Dhaka City**, Urban Studies Programme, Department of Geography, University of Dhaka, 1996.
- Khan. A.U. & Md. Abdul Baqee, (Eds), **Commercial Activity Women and Ecology: Seminar Proceedings**, IGU Commission on Commercial Activities & Bangladesh Geographical Society, Dhaka, 1994.

## IX ARTICLES IN BOOKS & JOURNALS AND SEMINAR PAPERS

- Mohammad Abdul Quader, Amanat Ullah Khan, Matthieu Kervyn, *Assessing Risks from Cyclones for Human Lives and Livelihoods in the Coastal Region of Bangladesh*, **Int. J. Environ. Res. Public Health** **2017**, 14(8), 831; doi:10.3390/ijerph14080831
- Amanat Ullah Khan, Manzurul Hassan & Peter Atkins (2014): *International curriculum transfer in geography in higher education: an example*, **Journal of Geography in Higher Education**, DOI: 10.1080/03098265.2014.912617, To link to this article: <http://dx.doi.org/10.1080/03>
- Amanat Ullah Khan, Md. Abdullah Al Baky and M Zaman, Asif. (2014), "Finding Spatial Inundation Severity with Hydraulic Modeling in Shariatpur District", **The Oriental Geographer**, Vol. 55. pp 1-12.
- Sabriana Sharna & Khan A.U., "Land Cover Detection Dhaka City Using Remote Sensing Technique", **Journal of the Faculty of Earth and Environmental Science**, University of Dhaka, Vol I, 2011.
- Baky, A. A. and Khan, A.U. (2012). Managing Flood Flows for Crop Production Risk Management with Hydraulic and GIS Modeling: Case Study of Agricultural Areas In Shariatpur. International Conference on Environment Science and Development (ICESD) (pp. 318- 324). Hong Kong: ELSEVIER. Can be viewed on "http://www.sciencedirect.com/science/article/pii/S221267081200053X"

- "Land Value Pattern in Dhaka City", **The Oriental Geographer**, Vol. 20, No. 2, 1975- 1976, pp. 9-19.
- Khan, A.U., "Urban Planning in Bangladesh: A Brief Review of Official Theory and Practice", in N. Islam (ed), **Essays on Urbanization, Urban Planning & Development**, Dhaka: Centre for Urban Studies, 1976, pp. 79-82.
- Islam, N., A.U. Khan and A.A M. Khan, "Squatters in Bangladesh Cities", **CUS Bulletin**, Annual Number, No. 7, 1976. pp. 15-19.
- Khan A.U. & Roger Hayter, "The Linkages of New Manufacturing Firms: An Exploratory Inquiry in the Vancouver Metropolitan Area", **The Albertan Geographer**, No. 20, 1984. pp. 1-13.
- Khan A.U., "Industrial Entrepreneurship in Dhaka City: Modelling the Decision Making Process", **The Oriental Geographer**, Vols. 29-30, 1985-86 (Special Double Volume).
- Islam, N & Amanat Ullah Khan, "Increasing the Absorptive Capacity of Metropolitan Economies of Asia: A Case Study of Dhaka", **Regional Development Dialogue** Vol. 9, No 4, Winter 1988, pp. 107-131.
- Khan, A.U., "Urban Health Care in Bangladesh: A Situation Analysis" in **VHSS Newsletter**, Vol. X, No. 100, 1991, pp. 73-85.
- Khan, A.U., "Environment, Infrastructure and Health in Urban Areas in Bangladesh: A Research Review." in **Urban Research in Bangladesh**, Ed. Nazrul Islam, Centre For Urban Studies: Dhaka, pp. 155-176.
- Khan, A.U., "Environment & Health Awareness", in **Bangladesher Shishu**, Proceedings of National Conference on Children of Bangladesh, pp. 185-188.
- Khan, A.U. & Md. Sofiullah, "Industrial Location Theory and the Industrial Location Decision Process of Bangladeshi Entrepreneurs: An Analysis", (in Bangla), **Dhaka University Patrika**, No 46, June 1993, pp. 155-168.
- Khan, A.U. & Md. Shafiqul Alam, "Pattern of Industrial Diversification of Selected Regions in Bangladesh 1978-1985", **The Oriental Geographer**, Vol 37, No. 2, 1993, pp. 30-46.
- Khan, A.U., "Family and Housing: the Bangladesh Perspective", in **Proceedings of National Seminar on World Habitat Day 1994**, (in Bangla), Ministry Works & Urban Development, Government of Bangladesh; Dhaka, 1994, pp. 14-19.
- Khan, A.U., "Thomas Kuhn's Paradigm in the Development of Geographic Thought since the Mid-fifties: A Critique", **Social Science Review**, The Dhaka University Studies, Part D, Vol. XI, No. 2, June 1994
- Khatun, H., A.U. Khan and AQM Mahboob, "Empowering Urban Poor Women Through Slum Improvement Project in Bangladesh" in **Proceedings of the International Seminar on Commercial Activity, Women and Ecology**, March 1995.
- Khan A.U., "Small Towns for Rural Development: Context of Bangladesh", **Bangladesh Urban Studies**, Vol. 1 No. 2, 1993, pp.51-63.



- Khan, A.U., "Employment and Income Characteristics of the Urban Poor", in N. Islam (ed.), **The Urban Poor in Bangladesh**, Centre for Urban Studies, Dhaka, 1996, pp. 73-80.
- Fariduddin, K.M. and A.U.Khan, "Health Profile of the Urban Poor" in N. Islam (ed.), **The Urban Poor in Bangladesh**, Centre for Urban Studies, Dhaka, 1996, pp. 40-51.
- Nazrul Islam and Amanat Ullah Khan, "Community -Based Programmes for Urban Poverty Alleviation in Bangladesh: The Role of City Governments and Local Authorities"; in Clarence Shubert (Ed), **Building Partnerships for Urban Poverty Alleviation, Community -based Programmes in Asia**, Urban Management Programme.

## X COUNTRIES OF WORK EXPERIENCE

Bangladesh, Canada, USA, UK