

CURRICULUM VITAE of

Raquib AHMED *Ph.D.*

MAILING ADDRESS

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UNIVERSITY EDUCATION

1990 Ph.D., Geography (Urban Geography), University of Mysore, India.
1980 Masters, Geography, University of Rajshahi, Bangladesh (First Position in First Class).
1977 Bachelor (Honours), Geography, University of Rajshahi, Bangladesh (First Position in First Class).

POSITION HOLD

Professor and Director

PROFESSIONAL CAREER

Teaching and research

16-09-2009 continue	Professor and Director (from 01-10-2009), Institute of Environmental Science, University of Rajshahi, Bangladesh
2009 Sept- 2012 Sept	Appointed Visiting Professor of Remote Sensing and GIS at the Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences, 818 South Beijing Road, Urumqi, Xinjiang, China.
2009 (June-Sept)	Visiting Scientist, Institute of Ecology and Geography, Chinese Academy of Sciences, Urumqi, Xinjiang, China.
15-02-09 to 16-09-2009	Professor of Geography and Environmental Studies, University of Rajshahi, Bangladesh.
2008 Feb to 2009 Feb	Professor and Chairman, Department of Geography, The Islamia University of Bahawalpur, Pakistan.
25-05-97 to 12-02-08	Professor of Geography & Environmental Studies, Rajshahi University.
2006 Oct-2007 Jan	Guest Professor, Institute of Geography, Humboldt University of Berlin, Germany.
2006 (Mar-June)	Visiting Scientist, Institute of Remote Sensing Applications, Chinese Academy of Sciences, Beijing, China.
2001 (Apr-July)	Guest Professor, Institute of Geography, Humboldt University of Berlin, Germany.
09-11-97 to 09-12-01	Administrator, Computer Center, Rajshahi University. This center is to serve the entire university for research, administration, and maintains both internal and external communication through its LAN (Campus Network) and own VSAT system.
06-06-91 to 24-05-97	Associate Professor of Geography, Rajshahi University.
22-07-84 to 05-06-91	Assistant Professor of Geography, Rajshahi University.
23-02-81 to 21-07-84	Lecturer in Geography, Rajshahi University.
1979 Sept to 1980 Oct	Research Associate, Department of Urban and Regional Planning, University of Engineering and Technology, Dhaka, Bangladesh.

Departmental responsibilities

Takes courses at the Institute of Environmental Science and Geography and Environmental Studies regularly and occasionally takes courses at the department of Fisheries and Aquaculture. Generally teach and supervise research in the field of Remote Sensing and GIS application in land use change and environmental management (particularly in the environmentally stressed coastal regions) and in urban geography in both graduate, and Ph. D. level. Involved in curriculum development in the above fields. Also teaches regional geography of South Asia in undergraduate class.

Administrative head of a post-graduate research institute to look after institute's academic, planning, all internal and external communications and staff management.

Other academic responsibilities

Works and worked as member of University Academic Councils, member of Board of Governors of University of Rajshahi in Bangladesh and the Islamia University of Bahawalpur in Pakistan. Worked as referees of many students and jobs of different levels. Reviewed articles for Elsevier journals, International Journal of Digital Earth, Pakistan Journal of Geography, Oriental Geography of the University of Dhaka (Bangladesh), Plan Plus of the University of Khulna (Bangladesh), Journal of Geo-environment of the University of Rajshahi (Bangladesh) etc. Works as co-organizer of various international programs run jointly by the University of Rajshahi in Bangladesh and Universities of Cologne, Humboldt in Berlin and of Higher Education in Teaching in Freiburg in Germany.

Field work supervision in Bangladesh

- **2007:** As part of the department's academic responsibility, supervised team of about 60 students to conduct land use and socio-economic survey on St. Martins Island.
- **1994:** As part of the department's academic responsibility, supervised team of about 60 students to conduct land use and socio-economic survey on Rajshahi City.
- **1991:** As part of the department's academic responsibility, as team leader supervised team of about 65 students to conduct land use and socio-economic survey on Dinajpur town.

Field work supervision abroad

- **2008 (June):** Supervised micro-regional survey as team leader of 40 graduate students on Rawlakot town in Azad Kashmir in Pakistan.

RESEARCH AREAS AND INTERESTS

Remote sensing and GIS application in coastal environment study, land use change modeling, spatial data base modeling and urban geography

SPECIALIZED TRAININGS OBTAINED

- 2009 (Nov) Participated in the 'Workshop and Conference on Biogeochemical Impacts of Climate and Land-Use Changes on Marine Ecosystems, International Center for Theoretical Physics (ICTP), Trieste, Italy.
- 2002 (Aug-Sep) Participated in the 'International Training Course on Geoinformatics for Disaster Management' at the Center for Space Science and Technology Education in Asia and the Pacific (CSSTE-AP), 4 Kalidas Road, Dehradun, India
- 2000 (October) Participated and completed the Earth Systems Science Course in Watersheds and Coastal Zone Simulation at the International Center for Theoretical Physics in Trieste, Italy.
- 1994 (July-October) Three months' Certificate Course on Land Information System (LIS) from the Indian Institute of Remote Sensing, Dehradun-248 001, India.
- 1993 (February) Training on GIS, Center for GIS and Analysis, University of Khulna, Bangladesh, organized by the United Nations Development Program.

APPLICATION SOFTWARE KNOWLEDGE

PC based IDRISI, Cartalinx, ERDAS, Arcview, Foxpro, EXTEND (simulation modeling software) etc.

PROGRAMMING KNOWLEDGE

FoxPro, Pascal and Basic (working level)

RESEARCH INVOLVEMENTS ABROAD

- **2009** (June-Sept), Visiting Professor, Xinjuang Institute of Ecology and Geography, Chinese Academy of Sciences, Urumqi, China. Conducted research on ‘Application of geo-informatics in rangeland management for Cholistan desert in Pakistan’.
- **2008** (June), Delivered lecture on ‘Optical remote sensing fundamentals and applications’ at the Summer Science seminar at the Department of Geography, Urban and Regional Planning at the University of Peshawar in Pakistan.
- **2008** (April), Delivered special lecture on ‘Remote sensing and coral ecosystem mapping around St. Martins Island in Bangladesh’ in the Department of Geography, Urban and Regional Planning at The University of Peshawar, Pakistan.
- **2007** (March), Participated as session chairperson at the international conference on ‘Nuclearization in South Asia: consequences, Challenges and Future Prospects’, organized by the Political Science Department at the Islamia University of Bahawalpur in Pakistan.
- **2006/2007**(Nov-January), Guest Professor, Institute of Geography, Humboldt University of Berlin, Germany. Conducted research on the application of remote sensing in detecting mangrove forest change in Bangladesh.
- **2006** (March-June), Visiting Scientist/Professor at the Institute of Remote Sensing Applications, Chinese Academy of Sciences, Beijing, China. Conducted a research titled “Application of Remote Sensing in Analyzing Forest Cover and Forest Eco-environment Change: A Case of Bangladesh” in addition to delivering lectures.
- **2004** (December), Mapping Coastal Bathymetry of the Upper Bay of Bengal using Satellite’s Optical Radiance, paper presented at the annual conference of the South-East Asian Geographical Conference during 29 Nov to 03 Dec 2004 at the Khon Kaen University in Thailand.
- **2001** (December), Visited the Remote Sensing and GIS unit of the Royal Forestry Department of Thailand in Bangkok, and involved in discussion on the application of remote sensing in forest management
- **2001** (November), Delivered paper on ‘Application of Geo-informatics in the Coastal Hazard Management in Bangladesh’ at the UNESCO-MAB Regional Seminar on Ecosystem Valuation – for Assessing Functions, Goods and Services of Coastal Ecosystems in Southeast Asia, at the National University of Vietnam in Hanoi, Vietnam
- **2001** (April – July), Guest Professor, Institute of Geography, Humboldt University of Berlin, Berlin, Germany. Conducted research on ‘Application of Remote Sensing in the Assessment of Natural Hazard Impact in Bangladesh Coast’.
- **2001** (July), Delivered special lectures in the Department of Geography at the Kelaniya University, Kelaniya, Sri Lanka on:
 - (I) Identification of land use around Rajshahi city area using IRS I-A LISS II data
 - (ii) Application of geo-informatics in the coastal hazard management in Bangladesh
 - (iii) Introductory lectures on the use of image processing software IDRISI
- **1999** (Dec), Delivered a paper on “Urbanization and Environmental Issues in Bangladesh”, at the International Conference on Development Research for the Next Millennium – The Agenda of the South, Department of Human and Economic Geography, University of Gothenburg, Sweden.

- **1996** (October), Delivered a paper on “Identifying Lands Use Around Rajshahi City Area Using IRS 1B LISS II Data”, in the XVIII Indian Geography Congress, Department of Geography, North Eastern Hill University, Shillong, India.
- **1996** (November), Presented paper titled “Multitemporal land use change analysis in Gazipur District in Bangladesh”, at the international conference at Biswabharati University, Kalyani, India.
- **1988** (January), Presented paper on “Intra-urban retailing – a case study from Bangladesh”, at the international conference of National Association of Geographers – India, at the University of Puna in India.

RESEARCH ACTIVITY

PROJECTS (Research and Development, as Project Director/Team Leader)

Ongoing...

- Analyzing the change of land cover/land use pattern and management of rangeland in lesser Cholistan desert in Pakistan using satellite remote sensing”, sponsor, The Islamia University of Bahawalpur, Pakistan.
- Land Resource Assessment of the Coastal and Off Shore Islands in Bangladesh: A Study using Remotely Sensed Data”, Sponsor, University of Rajshahi, Bangladesh.

Completed

- Application of remote sensing in coral ecosystem change monitoring. Sponsor, Center for Disaster Management, Department of Geography and Environment, Dhaka University, Bangladesh.
- Mapping underwater coral ecosystem change around St. martin’s island: towards development of an alternative method, Sponsor, Rajshahi University.
- Construct, Install and Operationalize a Fiber Optics Backbone based LAN for the Rajshahi University Campus (Campus Network) to connect 42 departments, all academic institutes and faculties (Cost about US \$ 56,000). Sponsor, Ministry of Science and Technology, Government of Bangladesh, 2001
- Application of GIS in Urban Cadastral and Facilities Management: A Study on Rajshahi City, Sponsor; University of Rajshahi. 2000

RESEARCH SUPERVISION (ongoing....)

Ph. D. level

- Land use change and environmental degradation in Dhaka City.
- Changing pattern of wetlands and the environment of Dhaka City.

M. Phil. Level

- Application of geo-informatics in the environmental change monitoring
- Stress of land use change on water resources: a case of Barind region in Bangladesh

RESEARCH SUPERVISION (completed)

Ph.D. level

- Sustainable land management and the implication of government’s policy in Bangladesh 2007
- Application of GIS for the development of municipal information system for Rajshahi City, 2006
- Shrimp Culture and Land Use Change in Coastal Areas of Bangladesh: A Spatio-Temporal Analysis. 2001

M.Phil. level

- Structure, Spatial Organization and Service Pattern of Raw Food Markets: A Case of Rajshahi City in Planning Perspective, 2005
- Identification of Land Use Change in Gazipur District: A Study Using Remotely Sensed

Data. 1997

Masters level

- Study of the Jamuna-Brahmaputra-Meghna river system using satellite remote sensing, (2008)
- Possible water storage in upper Padma and its impact on drought and flood management, (2008)
- Mapping underwater coral ecosystem change around St. Martins Island: towards development of an alternative method, 2006
- Nature and dimensions of the degradations of coastal lands in Bangladesh, 2006
- Mapping the change of vegetation cover in *Sundarban* Forest in Bangladesh: examination of different vegetation indices of remote sensing application, 2006
- Mapping and monitoring the environmental change of *Chakaria Sundarban* area: application of geoinformation techniques, 2006
- Mapping coastal land use change: a case of *Hatya Thana*, 2006
- Coastal bathymetric mapping and the remote sensing application, 2005
- Identification of landslide potential regions in Bangladesh and the application of geoinformation techniques”, 2005
- Simulated model of flood damage prediction and assessment. 2004
- Impact of Natural Hazards in the Coastal Areas of Bangladesh: A Temporal Analysis. 2002
- The Heritage of Rajshahi City: A Geographical Analysis in Relation to City’s Development and Expansion. 2002
- A Profile of the Changes of Environment in the Agro-Ecological Zone – 26 of Bangladesh: A Case Study of Godagari Thana . 2000
- Identification and the Characteristics of the Urban Zone of Influence of Rajshahi City. 2000
- Urban Data Base Management System: A Case of Rajshahi City in Geographic Perspective. 1999
- Employment Structure of Slum Dwelling Women in Rajshahi City. 1999
- Land Cover Change Analysis in the Barind Upland Area in Western Bangladesh Using Satellite Data. 1998
- Land Resource Assessment of Coastal and Offshore Islands Using Remotely Sensed Data: A Study on The Lower Meghna Estuarine Zone. 1998
- Land Resource Assessment of Coastal and Offshore Islands Using Remotely Sensed Data: A Study on The Southern Khulna Region. 1998
- Land Resource Assessment of Coastal and Offshore Islands Using Remotely Sensed Data: A Study on The Chittagong Coast. 1998
- Social Areas of Rajshahi City: A Quantitative Approach. 1997
- Shopping Centers in Rajshahi City: A Locational Analysis in Planning Perspective using Vector GIS.1996.
- Urban Land Use Change in Rajshahi City. 1996
- Land Value Pattern in Rajshahi City: A Locational Analysis. 1996

Supervised Students' Project Research (Masters)

- Spatial Distribution of Video Shops in Rajshahi City and its Social Impact. (1996)
- Impact of Flood in Bangladesh, 1995. (1996)
- *Char* (river sand bar) Development Project and Rehabilitation Program: A Case Study of Paba *Char* in Rajshahi.(1996)
- Changes and Spatial Distribution of Minority Population in Bangladesh. (1995)
- A Geographical Distribution of Inequality of Health Services in Bangladesh. (1995)
- Innovation and Diffusion of HYV Rice in Bangladesh. (1995)

- Pattern of Female Literacy in Bangladesh-Its Relation with Social Changes. (1995)
- Delimitation of the CBD of Rajshahi City. (1994)
- Retail Change in the Central Area of Rajshahi City. (1994)
- Spatial Land Value Pattern in the Central Area of Rajshahi City. (1994)
- The Physical Expansion of the Central Area of Rajshahi City: A Historical Approach. (1994)
- Delimitation of the Catchment Area of a Rural Food Market. (1992)
- Traffic Flow Pattern in Rajshahi City. (1992)
- Spatial Pattern of Literacy Change in Bangladesh. (1992)
- Environmental Status of a Residential Sector in Meherpur Town in Bangladesh. (1992)
- The Retail Structure of Habiganj Town. (1990)

RESEARCH WORKS

Papers published

- Islam, M.S., Ahmed, R., Shahabuddin, A.K.M. and Sheikh, A.H. (2009), "Pattern of land use change and its dynamics of urban expansion in Dhaka City, Bangladesh", accepted for publication in the *Journal of Geo-environment*, University of Rajshahi, Bangladesh.
- Islam, M. S., Rana, M. M. P., Ahmed, R. and Rahman, M. (issue 2007, appeared in July 2008), "Structural characteristics and spatial organization of raw food markets in Rajshahi City, Bangladesh", *Khulna University Studies*, Vol. 8, No. 2, pp. 306-315.
- Ahmed, R. and Falk, G. C. (Feb 2008), "Bangladesh environment under pressure", *Geographische Rundschau, International Edition*, Vol. 4, Number. 1/2008, pp. 12-19.
- Ahmed, R. (2007), "Optical remote sensing and the forest eco-environment change monitoring, Proceedings of the Bangladesh Electronics Society, pp. 17-21.
- Ahmed, R. (2007), "Electromagnetic radiation and remote sensing", in M. Z. Hassan (eds, in Bangla), Golden Jubilee Commemorative Volume, Department of Geography and Environmental Studies, Rajshahi University, Bangladesh. pp. 170-184.
- Ahmed, R. and Roy, C. (July 2006), "Calibration of optical satellite data for coastal bathymetric mapping", the *Journal of the Life and Earth Sciences*, Vol. 02, No. 01, pp. 7-16. Published from Rajshahi University.
- Ahmed, R. and Wolf, W. (2006), "Modeling early estimation of coastal cyclone impact: use of integrated GIS to enhance operational efficiency", *The Journal of Geo-Environment*, University of Rajshahi, Bangladesh, Vol. 5, pp. 81-100.
- Hossain, M. A. and Ahmed, R. (2004), "Status of Housing Quality in Rajshahi City: A Geographical Study", *Plan Plus*, Khulna University, Bangladesh, Vol. 1, No. 2, pp 70-78.
- Ahmed, R. and Wolf, W. (2002), "Geo-informatics and the Coastal Hazard Management in Bangladesh", Proceedings of the Ecotone X: Ecosystem Valuation – for Assessing Functions, Goods and Services of Coastal Ecosystems in South East Asia, published by the Vietnam National University, UNESCO and others, pp. 274-298
- Ahmed, R. (2002), "Rajshahi City: Its Internal Structure", *CUS Bulletin on Urbanization and Development*, Vol 42, pp. 29-31
- Ahmed, R. (2002), "Urban environmental issues in Bangladesh and government intervention", in Anders Narman and Kamal Karunanayake (eds), Towards a new regional and local development research agenda, Goteborg University, pp. 79-94.
- Ahmed, R. (2001), "Identifying land use around Rajshahi City area using IRS 1B LISS II data", in R. K. Rai et al (eds), Environment, Resources and Development, Geographical Society of North-Eastern Hill Region (India), pp. 87-97.
- Ahmed, R. (1998), "Bangladesh: Land, Soil and Landscape", in Philip Gain (ed), Bangladesh Environment: Facing the 21st Century, Society for Environment and Human Development, 44/8 West Panthapath, North Dhanmandi, Dhaka, pp. 1-25.
- Ahmed, R. and Rumi, S.R.A. (1997), "Economic Functions and Characteristics of CBD of

- Rajshahi City: A Study using GIS Approach”, *Oriental Geographer*, Vol 41(1), pp. 1-13.
- Chowdhury, M. H. and Ahmed, R. (November, 1992), “Multi-temporal Analysis of Land Cover Change Using Different Satellite Platforms and GIS Integration: A Case Study in Bangladesh.” *Journal of the Bangladesh National Geographical Association*, Vol. 20, No. 1 & 2, pp. 19-40.
 - Ahmed, R.(1993), "Intra Urban Form and Functional Organization: A Study of Retailing in Habiganj Town in Bangladesh", *Oriental Geographer*, Vol. 37, No. 1, pp. 37-53.
 - Ahmed, R. (1993),"Intra Urban Retailing and the Application of Central Place Concept", Proceedings of the Tokyo and Kobe, IGU Commission on Geography of Commercial Activities, pp. 77-84.
 - Matin, I. and Ahmed, R. (1992), "Climatic Change and its Impact on Ground Water in the Barind Tract in Bangladesh", Proceedings of the World Congress on Natural Hazard Reduction, Institution of Engineers, India, Vol. II, pp. 45-53.
 - Ahmed, R. (1990), "Intra Urban Population Density in Khulna City and Selected Correlative Aspects", *Journal of the Bangladesh National Geographical Association*, Vol. 18, No. 1 & 2, pp. 87-92.
 - Arephin, S. and Ahmed, R. (1990), "Retail Distribution in Rajshahi City: A Locational Analysis", *Journal of the Institute of Bangladesh Studies*, Vol. 3., pp. 143-157.
 - Ahmed, R. and Mahadev, P.D. (1988), "Distance and Population Factor for Intra-Urban Retailing", *Indian Geographical Journal*, Vol. 63(2), pp.125-132.

Book published

Ahmed, R. (Dec 2004), Aerial Photo Interpretation and Photogrammetry, (text book in Bangla), Tahasina Rahman, Dhaka, total pages 150.

Articles published in national English daily

Ahmed, R. (April 19, 2006), Exploring coral gardens at St. Martins Island: a geographer's experiences, *The Daily Independent*, Dhaka.

Ahmed, R. (May 03, 2006), Hot May phenomena in Bangladesh, *The Daily Independent*, Dhaka.

Ahmed, R. (May 24, 2006), Remote sensing: watching earth from space (first part), *The Daily Independent*, Dhaka.

Ahmed, R. (May 31, 2006), Remote sensing: watching earth from space (second part), *The Daily Independent*, Dhaka.

Ahmed, R. (June 21, 2006), Aerial remote sensing and rescuing the victims, *The Daily Independent*, Dhaka.

Ahmed, R. (July 26, 2006), Bathymetric survey and remote sensing, *The Daily Independent*, Dhaka.

Ahmed, R. (August 16, 2006), Space race supremacy, *The Daily Independent*, Dhaka.

Ahmed, R. (September 06, 2006), Debates on natural and manmade climate change, *The Daily Independent*, Dhaka.

Unpublished

- Ahmed, R. (1990), "Location of Intra Urban Retailing with regard to Form, Function and Process: A Case of Two Cities in Bangladesh", unpublished Ph.D. thesis, Department of Geography, University of Mysore, Mysore 570006, India.
- Ahmed, R. (1980), "The Retail Structure of Rajshahi City: A Locational Analysis", unpublished M.A. thesis, Department of Geography, University of Rajshahi, Rajshahi 6205, Bangladesh.

Consultant service

- 1996 – till now Part time Consultant Geographer/Cartographer, Society for Environment and Human Development (SEHD), 4/4/1(B) (3rd floor), Block - A, Lalmatia, Dhaka- 1207, Bangladesh, email: sehd@citechco.net
- 2002-2003 Evaluation Consultant (one month) to evaluate the environment related projects funded by theCORDAID, P.O. Box 16440, 2500 BK The Hague, The Netherlands.
- 1998-1999 Worked as Consultant to the Ministry of Land, Government of Bangladesh as Natural Resources and Environmental Geographer in the Project “Tracer Study for the Preparation of Pilot Projects on Land Use Planning Frame Work Exercise”.
- 1998 Worked as Principal Research Investigator for the Wetland Bio-Diversity Management Socio-economic Baseline Survey Project, sponsored by the Department of Environment, Government of Bangladesh and funded by the UNDP.
- 1997 Worked as Research Coordinator in the NACOB Consultancy Services, 23/23 Tajmahal Road, Block C, Mohammadpur, Dhaka, Phone: 817885, for an impact assessment analysis of WFP’s Food for Works Programme.
- 1995-1996 GIS Consultant to the BEXIMCO Computers Ltd., Dhanmondi R/A, Dhaka, Bangladesh.

PROFESSIONAL MEMBERSHIP

- Life Member, Indian Science Congress Association, since 1988 (No. 3469).
- Life Member, National Association of Geographers, since 1989 India (No. 176).
- Member, IGU Commission on Commercial Activities, 1992-1996
- Life Member, Bangladesh Geographical Society, since 2000

ADDITIONAL SKILL AND HOBBY

Light vehicle driving, scuba diving and underwater photography, drawing and painting.

REFERENCES

Available on request