

Md Jamal Uddin Khan

Curriculum Vitae

14 Avenue Edouard Belin
Toulouse - 31400, France
☎ +33 7 69 89 65 80
✉ jamal.khan@legos.obs-mip.fr
jamal919@gmail.com



Education

- 2007 **Secondary School Certificate Exam**, Habiganj Govt. High School, Sylhet Board, GPA – 5.00 on 5.00.
Science Division
- 2009 **Higher Secondary Certificate Exam**, Jalalabad Cantonment Public School and College, Sylhet Board, GPA – 5.00 on 5.00.
Science Division
- 2010-2015 **B.Sc in Civil Engineering**, Bangladesh University of Engineering and Technology (BUET), Major – Structural Engineering, Minor – Transportation Engineering, GPA – 3.31 on 4.00.
- 2015-2017 **M.Sc in Civil and Structural Engineering**, Bangladesh University of Engineering and Technology (BUET), GPA – 3.58 on 4.00.

Bachelor Thesis

- Title *Moment-Curvature Relationships of Original and Jacketed Reinforced Concrete Sections*
- Supervisor Professor Dr. Tahsin Reza Hossain
- Description In this thesis, a program is developed in MATLAB[®] to determine the numerical moment-curvature relationships of original and jacketed reinforced concrete sections to illustrate the effect of reinforced concrete jacketing. A comparison is also made among the numerical values and code specified values to be used for non-linear static pushover analysis.

M.Sc. Engg Thesis

- Title *Basic Wind Speed Map and Probable Structural Overloading in Bangladesh Under High-Emission Extreme Climate Scenario*
- Supervisor Professor Dr. Raquib Ahsan
- Description In a warming climate, extreme cases of environmental forces are becoming more and more prominent. It is imperative to know the wind load in Bangladesh in future climate. This proposed study will assess the changes in wind loading under various climate change scenario.

Experience

Research

- Mar. 2018 – **PhD Student**, *Universite Toulouse III - Paul Sabatier*, Laboratoire d'Etudes en
Ongoing Geophysique et Oceanographie Spatiales, Centre national de la recherche scientifique.
Working under supervision of Dr. Fabien Durand to determine the mechanisms of coastal
flooding during extreme events. The work is jointly funded by CNES and Embassy of France
in Dhaka.
- Dec. 2015 – **Research Assistant**, *Climate Modeling and Simulation Lab*, IWFM, BUET.
Feb. 2018 Working with Climate and Atmospheric Model, Hydrologic Modeling, Data Processing,
Infection Forecasting Modeling
- June 2016 – **Research Associate**, *CIMMYT-Bangladesh*, Dhaka, Bangladesh.
October 2016 Developing a meteorological factor based wheat blast model.

Vocational

- 2015 **Consultant Designer**, *Habiganj Zilla Parishad*, Design and Drafting of Baniyachong
Shahi Eidgah Gate, Baniyachong.
Budget: 0.8M BDT

Organizing

- 2012 - 2014 **Organizer**, Local Math Olympiad, Habiganj.
2013 **Converner**, Science Workshop, Habiganj.
2014 **Organizer**, Workshop on University Admission, Habiganj.

Miscellaneous

- 2015 **Web Developer**, *Personal Project*, Development and Deployment of Website for
University Students Association of Habiganj (USAH).
- 2017 **Web Developer**, *Personal Project*, Development of Website for gronthalap.com, a
Book review portal.

Training

- 2016 **Spaceborne Altimetry and Data Processing**, *Indo-French Cell for Water Science*,
Indian Institute of Science, Bangalore, India.
Worked with Dr. Stephane Calmant on the theory of spaceborne altimetry and processing
of altimetry data using MATLAB.
- 2017 **Hydrodynamic modelling**, *Indo-French Cell for Water Science*, Indian Institute of
Science, Bangalore, India.
Worked with Dr. Yann Krien on SCHISM modeling system for hydrodynamics modeling in
the Bay of Bengal.
- 2018 **SCHISM Modelling Course**, *ICBM*, University of Oldenburg, Germany.
Course on SCHISM modelling system conducted by the lead developer Dr. Joseph Zhang.

Awards

- 2005 Primary Talentpool Scholarship, Nabiganj

2008 Junior Talentpool Scholarship, Habiganj

Computer skills

Basic	C, C++, Fortran, Adobe Illustrator, Adobe Photoshop, Inkscape, GIMP, Networking, PSPP/SPSS
Intermediate	PYTHON, HTML, PHP, Database, \LaTeX , Revit, ArchiCAD [®] , SketchUp, CSiBridge, VISSIM [®] , ArcGIS, QGIS
Advanced	Microsoft [™] Windows [®] , Linux, OpenOffice, Microsoft Office, AutoCAD [®] , SAP2000 [®] , ETABS, CSI SAFE, MATLAB [®] , R, WEATHER RESEARCH AND FORECASTING (WRF), SCHISM

Communication Skills

- 2014 Oral Presentation at Workshop on University Admission, Habiganj
- 2014 Showcase Presentation on "Creating an Urban Oasis"
- 2016 Poster Presentation on OSTST - 2016, La Rochelle, France

Languages

Bengali	Mother-tongue	<i>Fluent conversation, reading and writing</i>
English	Expert	<i>Fluent conversation, reading and writing</i>
Arabic	Basic	<i>Basic words and phrases only</i>
French	Basic	<i>Basic words and phrases only</i>

Interests

- Coastal Hydrodynamics
- Weather Modeling
- Finite Element Methods
- Earthquake Engineering
- Web Technology
- Fantasy Books
- Sightseeing
- Spaceborne Altimetry
- Hydrology
- Programming
- Sustainable Development
- Open Source Technology
- Philosophy
- Tracking

Reference

Dr. Fabien Durand, *Charge de Recherche*, LEGOS, Institut de Recherche pour le Developpement (IRD).
fabien.durand@ird.fr

Dr. Raquib Ahsan, *Professor*, Department of Civil Engineering, Bangladesh University of Engineering and Technology (BUET).
raquibahsan@ce.buet.ac.bd

Dr. A.K.M Saiful Islam, *Professor*, Institute of Water and Flood Management, Bangladesh University of Engineering and Technology (BUET).
akmsaifulislam@iwfm.buet.ac.bd

Dr. Tahsin Reza Hossain, *Professor*, Department of Civil Engineering, Bangladesh University of Engineering and Technology (BUET).
tahsin@ce.buet.ac.bd