Prof. Dr. Agha Faisal Habib Pathan

B.E (Civil), M.E (AIT, Thailand), PhD (University of Leeds, UK)

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PERSONAL INFORMATION

Name:	Prof. Dr. AGHA FAISAL HABIB PATHAN
Profession:	Professor / Director Admissions of Mehran UET Transport Planner/ Modeller
Specialization:	Transportation Engineering/ Planning and Modelling
Nationality:	Pakistani
Date of Birth:	January 5, 1974, Hyderabad, Pakistan
Gender	Male
Years of Experience:	16 years 4 month
Membership in Professional Societies:	American Society of Civil Engineers, Member # 466711 Pakistan Engineering Council, Member # CIVIL/18897 The Institute of Highways and Transportation, Member # 000067088
Address (Residence):	149-B, Unit No. 3 Latifabad, Hyderabad, 71800, Sindh, Pakistan
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RESEARCH INTERESTS

- Choice/Behavioural Modelling
- Passenger Travel Demand
- Transport Demand Forecasting (particularly using behavioural and attitudinal data)
- Micro-econometrics
- Impacts of Traffic Information
- Survey Methodologies
- Traffic Engineering and Management

EDUCATION

2006 – 2010	PhD	Completed PhD in Transport Economics and Behavioural Modelling from Institute for Transport studies, University of Leeds. PhD thesis titled as "***Modelling Travellers' Choice of Information Sources and of Mode***". PhD study started in April 2006, thesis submitted in February 2010, and Viva was held on 20th May 2010. Prof. Peter Bonsall and Prof. Gerard de Jong were thesis supervisors and PhD examining committee included Prof. Bert Van Wee (Delft University Netherland) and Prof. Mark Wardman. The degree of Doctor of Philosophy was awarded on 7th June 2010 and was conferred at a degree ceremony in December 2010.
2003 – 2005	M.E (Transportation Engineering)	Completed M.Eng. (Master of Engineering) in the field of Transportation Engineering from Asian Institute of Technology (AIT), Thailand in May-2005. Final cumulative grade point average (CGPA) of 3.88 was achieved and I secured 2nd Position within the program. Also achieved excellent grade for the thesis titled as "***Traveler Response towards Advanced Traveler Information Systems (ATIS) in Bangkok***" and it was supervised by Prof. Yordphol Tanaboriboon and Dr. Shinya Hanaoka. M.Eng. in AIT is a two-year Master Degree program with 48 credits. The total minimum coursework credits are 26 whereas thesis is equivalent to 22 credits. To qualify for the degree of Master of Engineering, a student must • satisfactorily complete the minimum credit requirement; • achieve a final cumulative grade point average of not less than 2.75; • achieve a grade of excellent, very good, good or fair for the thesis; and • pass an oral examination on his/her thesis.
1992 – 1998	B.E (Civil Engineering)	Passed Bachelors degree (B.E) in Civil Engineering from Mehran University of Engineering and Technology, Jamshoro, Pakistan in September 1998 with CGPA of 3.98 and 92% marks. Final year thesis was titled "***Quality Control in Road Construction***" and it was supervised by Prof. Ali Akber Memon. Secured 2nd Position in First year of Engineering Secured 1st Position in Second year of Engineering Secured 2nd Position in Third year of Engineering Secured 3rd Position in Final year of Engineering
1989 – 1991	Intermediate (Pre-Engineering)	Passed HSC examination (Pre-Engineering) from B.I.S.E. Hyderabad at Public School Hyderabad with 86% marks. Got top position in Hyderabad District (Rural)
1987 – 1989	Matriculation (Science)	Passed SSC examination (Science) from B.I.S.E. Hyderabad at Public School Hyderabad with 87% marks.

ACADEMIC AWARDS AND SCHOLARSHIPS

- Received Strategic funding from ITS, Leeds to attend and participate in International Conferences i.e. UTSG 2007 (Harrogate), UTSG 2009 (London), & ICMC 2011 (Leeds)
- Received WCTR Fellowship Award from University of California, Berkeley to attend and participate in 11th World Conference on Transportation Research WCTR 2007, held on the University of California, Berkeley campus.
- Received PhD scholarship – Awarded by Mehran University of Engineering and Technology and HEC, 2006.
- ITS scholarship to Pursue PhD Studies – Awarded by Institute for Transport Studies (ITS), University of Leeds, 2006.
- HEC/AIT Fellowship Award to Pursue Master Degree in Transportation Engineering – Awarded by Higher Education Commission of Pakistan and Asian Institute of Technology, 2003.
- MEXT Scholarship to Pursue PhD Studies – Awarded by Ministry of Culture, Science and Technology, Government of Japan, (not Availed) 2003.
- NUS Scholarship to Pursue PhD Studies- Awarded by National University of Singapore, (not Availed) 2006.
- Merit Scholarship from Mehran University in four years of Bachelors study.

CONFERENCE COMMITTEES

- Remained part of the International Technical Committee of the third international symposium on Infrastructure Engineering in Developing Countries and first International Conference on Sustainable Transport and Traffic Management (IEDC-2010). Responsible for reviewing submitted research papers for the conference on travel behaviour modelling. The conference was organised by Urban and Infrastructure Engineering Department, NED University of Engineering and Technology. This conference held in July 2010.
  Conference website: http://www.neduet.edu.pk/UE/IEDC-2010/Home.html
- Remained member of the Scientific Committee of the 2015 International Conference of Civil Engineering and Rock Engineering (ICCERE-2015). The conference was organised by Hong Kong Information Science and Engineering Research Centre. The conference held in19 and 20 December 2015 in Guangzhou, China.

EXPERIENCE

1.	**Name of Employing Agency** **Title of Position** **Location of Assignment** **Period of Assignment**	**Mehran University of Engineering & Technology** **Professor / Director Admissions** **Hyderabad – Pakistan** **April 2014 – to date**

Duties

Responsibilities include: Teaching civil engineering subjects to undergraduate and postgraduate students (in English); helping students in Transport projects; design and development of curriculum for transportation engineering courses; demonstrating experiments in transportation engineering laboratory; and supervising undergraduate and postgraduate thesis. In addition to academics, the responsibilities of Director Admissions include supervising and managing whole process of undergraduate admissions of the university. The activities include printing of Prospectus, collection of admission forms and conducting pre-entry test, preparation of admission merit list and supervising whole admission procedures. The directorate of Admissions also registers and keep the record of enrolment of the students in addition to other various administrative functions.

Teaching Undergraduate	Currently teaching following undergraduate courses in Department of Civil Engineering, Mehran University of Engineering & Technology. 1. Strength of Materials (First year undergraduate students) 2. Theory of Structures (Second year undergraduate students)
Postgraduate	Following subjects have been taught at post graduate level in Department of Civil Engineering, Mehran University of Engineering & Technology. 1. Pavement Maintenance and Rehabilitation 2. Pavement Design
Academic Supervision	Following final year undergraduate projects were supervised by me in the department of Civil Engineering, Mehran University of Engineering and Technology during this period; 1. Scheduling and Improvement in MUET Bus Service System (2014) 2. Traffic Impact Study by using Microscopic Simulator Software, A Case Study of Naseem Nagar Square. (2014) Master level Thesis: 1. Estimation of Modal Shift of new BRT in Quetta (Currently underway, Mr. Anwar Hazoor, 2014) 2. Calculation of PCU in a Heterogeneous Traffic System in Pakistan (Currently underway, Mr. Abrar Hazoor, 2014) 3. Road Safety Audit of Indus Highway (Currently underway, Mr. Hamood Ur Rehman, 2014)

2.	**Name of Employing Agency**	**Mehran University of Engineering & Technology**
	Title of Position	**Assistant Professor**
	Location of Assignment	**Hyderabad – Pakistan**
	Period of Assignment	**February 2012 – April 2014**

Duties	Responsibilities include: Teaching civil engineering subjects to undergraduate and postgraduate students (in English); helping students in Transport projects; design and development of curriculum for transportation engineering courses; demonstrating experiments in transportation engineering laboratory; and supervising undergraduate and postgraduate thesis.
Teaching Undergraduate	Currently teaching following undergraduate courses in Department of Civil Engineering, Mehran University of Engineering & Technology. 1. Highway and Traffic Engineering (Final year undergraduate students) 2. Steel Structures (Third year undergraduate students) 3. Theory of Structures (Second year undergraduate students) 4. Engineering Mechanics (First year undergraduate students)
Postgraduate	Following subjects have been taught at post graduate level in Department of Civil Engineering, Mehran University of Engineering & Technology. 1. Traffic Engineering and Management 2. Transportation Planning and Policy

Academic Supervision	Following final year undergraduate projects were supervised by me in the department of Civil Engineering, Mehran University of Engineering and Technology during this period; 1. Development of Mode Choice Model for Hyderabad City (2013) 2. Development of Parking Demand model for Auto Bhan Road, Hyderabad (2013) Master level Thesis: 1. Perceived Reliability of a new BRT in Lahore. (Currently underway, Mr. Abdul Aziz) (2013)

3.	**Name of Employing Agency**	**Mehran University of Engineering & Technology**
	Title of Position	**Lecturer (on Study Leave)**
	Assignment	**PhD Student at University of Leeds**
	Location of Assignment	**Institute for Transport Studies, Leeds -UK**
	Period of Assignment	**April 2006– Feb 2012**

Duties	Responsibilities include: In ITS as a research student, in addition to the main Phd research there are opportunities to be involved across a range of projects, teaching and demonstrating activities, consultancy, conferences, publications and other academic responsibilities in providing assistance and contributions to on-going research projects.
Teaching	Involved in teaching assistance ship during PhD study in various masters level courses in the Institute for Transport Studies, University of Leeds. These are as follows: 1. Principles of Transport Modelling (Acted as a demonstrator to provide technical support of the software OMNITRANS with Dr. Haibo Chen as a course leader) 2. Acted as a demonstrator to provide technical support of the software PLUTO (A transport Planning Software) 3. Acted as Examination Supervisor to give logistics support, monitor and supervise several examination venues at University of Leeds. The role of Examination Supervisor at University of Leeds requires excellent organizational and communication skills as it involves contact with students, the coordination of the work of examination invigilators and liaising with academic staff. 4. Acted as Examination Invigilator in various exams.
Training / Skills Development	Undertook various trainings in the University of Leeds, in order to qualify for the job of module demonstrator, Exam invigilator, Exam supervisor etc. These trainings are part of programmes of skills training courses offered by Staff and Departmental Development Unit (SDDU), University of Leeds. 1. Effective Teaching methods in class rooms environment 2. Advanced Academic Writings 3. How to manage a Research project 4. Exam Invigilator responsibilities 5. Exam Supervision responsibilities 6. Speed PhD Training 7. SPSS for Beginners and Intermediate 8. Introduction to SATURN Also Audited some courses of the Masters program 1. Transport Investment Appraisal 2. A short course on Stated Preference Methods 3. Discreet Choice Modelling training by Stephane Hess

Conferences

Attended following Conferences with Institute for Transport Studies and University of Leeds funding

1. Presented Paper in European Transport Conference (ETC) Glasgow, UK, October 2011.
2. Attended and presented paper in International Choice Modelling Conference (ICMC) Leeds, UK, July 2011.
3. Attended and presented paper in presented in UTSG Conference held in London, UK, January 2009.
4. Attended and presented paper in in Environment 2007 Conference held in Leeds, UK, June 2007.
5. Attended and presented paper in UTSG Conference held in Harrogate, UK, January 2007.
6. Worked on GRACE Project at ITS, University of Leeds.

4.

Name of Employing Agency	**Mehran University of Engineering & Technology**
Title of Position	**Lecturer**
Location of Assignment	**Hyderabad – Pakistan**
Period of Assignment	**May 2005 –April 2006**

Duties

Responsibilities include: Teaching civil engineering subjects to undergraduate and postgraduate students (in English); helping students in Transport projects; design and development of curriculum for transportation engineering courses; demonstrating experiments in transportation engineering laboratory; and supervising undergraduate and postgraduate thesis.

Teaching Undergraduate

Taught following undergraduate courses in Department of Civil Engineering, Mehran University of Engineering & Technology.

1. Highway and Traffic Engineering (Final year undergraduate students)
2. Structural Analysis (Third year undergraduate students)
3. Engineering Mechanics (First year undergraduate students)

Academic Supervision

Following final year undergraduate projects were supervised by me in the department of Civil Engineering, Mehran University of Engineering and Technology during this period;

1. A Case Study of Road Safety Audit on Wadhu Wah Road (2006)
2. Asphalt Mix Design for Base Course (2006)

5.

Name of Employing Agency	**Mehran University of Engineering & Technology**
Title of Position	**Lecturer (on Study Leave)**
Assignment	**Master Student/Teaching Assistant**
Location of Assignment	**Asian Institute of Technology, Thailand**
Period of Assignment	**August 2003 – May 2005**

Duties

Responsibilities include: At AIT besides being master student, I was involved in teaching and demonstrating activities; trainings and conferences.

Teaching	Involved in teaching / tutorials during Master study in various masters level courses in Asian Institute of Technology. These are as follows: 1. Urban/Regional Transportation Analysis and Planning Methods. 2. Logistics Systems. 3. Transportation Economics and Project Evaluation. 4. Transportation Systems.
Training / Skills Development	Undertook various trainings/courses at Asian Institute of Technology 1. Human Rights and Development in Asia 2. Paramics (Traffic Simulation Software) 3. Hielow (Discreet Choice Modelling Software) Also Audited some courses of the Masters program 1. Urban Transport Planning and Policy 2. Developing Transport for Developing Countries
Seminars/ Field Trips	Attended following Seminars and field trips with funding from Asian Institute of Technology, Higher Education Commission of Pakistan and Singapore International Foundation, Government of Singapore. 1. Singapore Study/Field Trip: The trip was organised to cement students' ability to analyse complex planning and policy issues, interact professionally and understand the modern transportation issues. The trip included four days in Singapore; two days of intensive meetings followed by a day of visits to housing developments and the conduct of a questionnaire survey on transport issues. The Meetings and discussion events took place at the Land Transport Authority, the Public Transport Council, the SBS Transit, the Urban Redevelopment Authority, and the Housing Development Board. 2. Chiang Mai Field Trip: The trip was organised to enhance students; understanding of different traffic data collection methods and to carry out Road Safety Audit of selected locations. 3. Attended and participated in International Seminar on Road Safety held in Bangkok, Thailand on 22-24 March 2005.

6.	**Name of Employing Agency**	**Mehran University of Engineering & Technology**
	Title of Position	**Lecturer**
	Location of Assignment	**Hyderabad – Pakistan**
	Period of Assignment	**March 2001 –August 2003**

Duties	Responsibilities include: Teaching civil engineering subjects to undergraduate students; helping students in civil engineering projects; design and development of curriculum for various civil engineering courses; demonstrating experiments in transportation engineering laboratory; and supervising undergraduate thesis.

Teaching

Undergraduate

Taught following undergraduate courses in Department of Civil Engineering, Mehran University of Engineering & Technology.

1. Engineering Drawing (First year undergraduate students)
2. Structural Analysis (Third year undergraduate students)
3. Engineering Mechanics (First year undergraduate students)

Remained teacher in-charge of Transportation Engineering and Pavement Design Laboratory

7.	**Name of Employing Agency**	**National Engineering Services Pakistan (Pvt.) Limited (NESPAK)**
	Title of Position	**Design Engineer**
	Location of Assignment	**Multan– Pakistan**
	Period of Assignment	**August 1999 – March 2001**

Duties

Responsibilities include: Planning, Design and Preparation of Tender Documents for various projects using computer software.

Projects

Some of the important assignments during this period include:

1. Worked on preparation of Environmental Impact Assessment Report for Karachi Hyderabad Motorway (M-9). It included Socio-Economic survey group meetings and interviews with infected people.
2. Worked on Initial Environmental Examination of Sambrial Airport at Sialkot.
3. Worked on the EIA, Design and Drainage of Cycle Underpass on access roads to new Lahore Airport Terminal. It also included the design of disposal station.
4. Worked on the Drainage and Design of Ferozepur Road, Project completed in 2001.
5. Worked on the Drainage and Design of Flyover at Katchery Chowk Multan.
6. Worked on Design of Water Supply, Sewerage, and Drainage System including design of Water and Sewerage Treatment Plant for Sawan Gas field Project in Sindh
7. As a design Engineer completed Multan Sewerage Project. The job included Survey and Evaluation of Existing Sewerage System of Multan City and to suggest the required improvements in Sewers and Sewage Pump Stations. Detailed Design, Drawings, Technical Specifications, PC-1 and Cost Estimate were prepared also worked on extension of the project.
8. Completed Planning and Design of Water Supply, Sewerage and Drainage system for Overseas Pakistanis Foundation Housing Scheme Islamabad. It included Detailed Design, Preparation of Drawings, Technical Specifications, Tender Documents, Tender Drawings and Design Report.

8.	**Name of Employing Agency**	**National Engineering Services Pakistan (Pvt.) Limited (NESPAK)**
	Title of Position	**Resident Engineer**
	Location of Assignment	**Multan– Pakistan**
	Period of Assignment	**June 1999 –August 1999**

Duties	Responsibilities include: Construction Supervision of the project including on-site visits and checks on the compliance of specifications.
Assignments	Some of the important assignments during this period include: 1. Supervised the construction of Sewerage Scheme Multan. It included laying of sewers and different sizes and meetings with client and contractor. 2. Supervised the Survey work of Sewerage Scheme Multan. Survey included Route of proposed sewer, survey of existing sewers and causes of sore points.

9.	**Name of Employing Agency**	**National Engineering Services Pakistan (Pvt.) Limited (NESPAK)**
	Title of Position	**Design Engineer**
	Location of Assignment	**Multan– Pakistan**
	Period of Assignment	**April 1999 – June 1999**

Duties	Responsibilities include: Planning, Design and Preparation of Tender Documents for various projects using computer software.
Assignments	Some of the important assignments during this period include: 1. As a design Engineer worked on Multan Sewerage Project. The job included Survey and Evaluation of Existing Sewerage System of Multan City and to suggest the required improvements in Sewers and Sewage Pump Stations. 2. Detailed Design, Drawings, Technical Specifications, PC-1 and Cost Estimate were prepared.

10.	**Name of Employing Agency**	**Sheikh Inayatullah & Brothers**
	Title of Position	**Site Engineer**
	Location of Assignment	**Hyderabad – Pakistan**
	Period of Assignment	**September 1998– April 1999**

Duties	Responsibilities include: Construction Supervision of projects including on-site visits and checks.
Assignments	Worked as a site engineer.

MEMBERSHIP WITH PROFESSIONAL ORGANISATIONS

- Student Member - American Society of Civil Engineers, Member #: 466711
- Student Member – Institution of Highways & Transportation, Member #: 000067088
- Member – Pakistan Engineering Council, Member #: CIVIL/18897
- Member – Asian Institute of Technology Alumni Association, ID #: PK010MAY2005
- Member – Academic Affairs Committee, Students Union Asian Institute of Technology in 2005
- Member – Leeds Alumni Online

OTHER PROFESSIONAL TRAINING-COMPUTER SKILL

- Transport/Engineering Software - Water, Paramics, Hielow, SPSS, ALogit, Biogeme, SATURN,

OMNITRANS, PLUTO, WinMint, and Kenlayer etc.
- Data Processing Software - Microsoft Word 2010/2003, Microsoft Excel 2010/2003.
- Operating Systems - Windows 7/XP.
- Graphics Packages - Microsoft PowerPoint 2010/2003, Microsoft Visio, Microsoft Publisher.

LEADERSHIP SKILLS

- Communication: Good communication and presentation skills gained from delivering lectures and conducting tutorial classes in front large international audiences.
- Leadership: Leadership qualities have been shown at numerous occasions. Remained member of Academic Affair Committees, was Treasurer of Pakistan Student Association in Thailand, remained president of Pakistan Society in Leeds University, remained class representative during studies, was group leader in final year project of undergraduate studies.
- Problem Solving: Student counselling, and their problem solving as remained my top priorities in addition to academics.

COUNTRIES VISITED

	Country	Year/Duration	Purpose of Visit
•	Thailand	2003 to 2005	Master Studies
•	Singapore	2004	Professional/Study Visit
•	United Kingdom	2006 to 2010	PhD Research
•	France	2009	Professional/Personal
•	Switzerland	2009	Professional/Personal
•	Germany	2009	Professional/Personal
•	Netherlands	2009	Professional/Personal
•	Belgium	2009	Professional/Personal
•	Kingdom of Saudi Arabia	2012 and 2014	Professional/Personal

PUBLICATIONS

Journal Papers (Refereed)

1. Memon, A.A., Laghari, K.Q., Habib Pathan, A.F., Khatri, K.L., Shah, S.A., Pinjani, K.K., Soomro, R., and Kamran Ansari, K. (2013): *Design and Evaluation of Dadu Canal Lining for Sustainable Water Saving*, Journal of Water Resource and Protection, Vol. 5, No. 7, pp. 689-698, July, 2013. DOI: 10.4236/jwarp.2013.57069.
2. Khatri, K.L., Memon, A.A., Shaikh, Y., Habib Pathan, A.F., Shah, S.A., Pinjani, K.K., Soomro, R., Smith, R., and Almani, Z.A. (2013): *Real-Time Modelling and Optimisation for Water and Energy Efficient Surface Irrigation*, Journal of Water Resource and Protection, Vol. 5, No. 7, pp. 681-688, July, 2013. DOI: 10.4236/jwarp.2013.57068.
3. Habib Pathan, A.F., Almani, Z.A., and Memon, A.A. (2013): *A Conditioned Model for Choice of Mode under Information*, Mehran University Research Journal of Engineering and Technology, Vol. 32, No. 3, pp. 477-494, July, 2013.
4. Habib Pathan, A.F., Ansari, K., and Memon, A.A. (2013): *Modelling Choice of Information Sources*, Mehran University Research Journal of Engineering and Technology, Vol. 32, No. 2, pp. 287-306, April, 2013.
5. Almani, Z.A., Habib Pathan, A.F., and Memon, A.A. (2013): *Heavy Metal Diffusion through Soft Clay under High Hydraulic Gradients*,

Mehran University Research Journal of Engineering and Technology, Vol. 32, No. 2, pp. 307-318, April, 2013.

6. Memon, A.A., Habib Pathan, A.F., Almani, Z.A., Shah, S.F., and Shaikh, A.A. (2013): *Simulation of Transient Groundwater Flow in a Well Penetrating Confined Aquifer in Southern Rohri Command*, Sindh University Research Journal (Sci. Ser.), Vol. 45, No. 1, pp. 7-10, March, 2013.
7. Almani, Z.A., Habib Pathan, A.F., and Memon, A.A. (2013): *Effect of Earthquake Characteristics on Liquefaction Resistance of Reinforced Ground*, Sindh University Research Journal (Sci. Ser.), Vol. 45, No. 1, pp. 131-136, March, 2013.
8. Ansari, K., Habib Pathan, A.F., Memon, N.A., and Almani, Z.A. (2013): *Hydraulic Modeling of Natural Waterways of left bank of River Indus in Sindh with HEC-RAS*, Sindh University Research Journal (Sci. Ser.), Vol. 45, No. 1, pp. 149-152, March, 2013.
9. Ansari, K., Memon, N.A., Habib Pathan, A.F., and Memon, A.A. (2013): *Analysis of the Runoff Generated due to The 2011 Monsoon Rainfall in Sindh using HEC-HMS*, Sindh University Research Journal (Sci. Ser.), Vol. 45, No. 1, pp. 159-162, March, 2013.
10. Almani, Z.A., Habib Pathan, A.F., and Memon, A.A. (2013): *Diffusion Anisotropy Through Soft Clay*, Sindh University Research Journal (Sci. Ser.), Vol. 45, No. 1, pp. 171-176, March, 2013.
11. Hindu, A.K., Takimura, J., Habib Pathan, A.F. (2013): *Influence of Acoustic Excitation on Effluent Concentration of Zinc from Clayey Soils*, International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol. 3, No. 3, pp. 20-23, August 2013.
12. Almani, Z.A., Memon, A.A., Habib Pathan, A.F., Khatri, K.L., and Shah, S.F. (2013): *3D Numerical Modelling of Liquefaction-induced Settlements and its Mitigation*, Sindh University Research Journal (Sci. Ser.), Vol. 45, No. 2, pp. 301-304, August, 2013.
13. Khatri, K.L., Shah, S.A., Habib Pathan, A.F., Shams, B., Memon, A.A., Hussain, F., and Pinjani, K.K. (2013): *Real-Time Computer Analytical Application in Pressure Transient Analysis of Petroleum Reservoirs*, International Journal of Geosciences, Vol. 4, No. 8, pp. 1186-1192, October, 2013. DOI: 10.4236/ijg.2013.48112.
14. Memon, A.A., Almani, Z.A., Habib Pathan, A.F., Ansari, K., and Khatri, K.L. (2013): *Optimal Identification of Well Parameters using Genetical Algorithm*, Sindh University Research Journal (Sci. Ser.), Vol. 45, No. 3, pp. 555-568, September, 2013.
15. Habib Pathan, A.F., Ansari, K., Almani, Z.A., Memon, A.A., and Memon, N.A. (2013): *Choosing Information Sources: A Modelling Framework*, Sindh University Research Journal (Sci. Ser.), Vol. 45, No. 3, pp. 507-512, September, 2013.

International Conference Papers (Refereed)

1. Habib Pathan, A.F., Bonsall, P, De Jong, Gerard. (2011): *"Travellers Choice of Information Sources"* European Transport Conference (ETC) Glasgow, UK, October 2011.
2. Habib Pathan, A.F., Bonsall, P, De Jong, Gerard. (2011): *"How the Choice of Mode is Conditioned by Information Sources"*, International Choice Modelling Conference (ICMC) Leeds, UK, July 2011.
3. Habib Pathan, A.F., Bonsall, P, De Jong, Gerard. (2010): *"Design of Stated Preference Experiment to Study Pre-trip Planning of Travellers"*, In 3rd International symposium on Infrastructure Engineering in Developing countries (IEDC) held in Karachi, Pakistan, July 2010.
4. Habib Pathan, A.F., Bonsall, P, De Jong, Gerard. (2009): *"Travellers' Choice of Information Sources: Modelling Framework"* presented in UTSG Conference held in London, UK, January 2009.
5. Habib Pathan, A.F., Bonsall, P, De Jong, Gerard. (2009): *"Travellers' Choice of Information Sources"* presented in Environment 2007 Conference held in Leeds, UK, June 2007.
6. Habib Pathan, A.F., Hanaoka, S. (2007): *"Traveller Response towards Advanced Traveller Information Systems (ATIS) in Bangkok Freeways"* presented in UTSG Conference held in Harrogate, UK, January 2007.

Theses (Research)

PhD Research University of Leeds, UK.

PhD thesis titled "***Modelling Travellers' Choice of Information Sources and of Mode***" aimed at addressing the significance of traveller information obtained from various sources including mono-modal and multimodal websites for mode choice decisions. The research followed a decision paradigm involving an information acquisition process for travel choices, and identified the abstract characteristics of new information sources that deserve further investigation. The experiment included telephone administered questionnaire including RP (Revealed Preference) questions and an SP (Stated Preference) exercise dealing with the choice of modes conditioned by the information received from various sources. The research employed a wide range of modelling methodologies and examined a range of traditional and newly developed calibration and estimation procedures including Mixed Logit models with individual specific parameters and the newly developed RRM (Random Regret Minimisation) framework. This research confirmed that RRM (Random Regret Minimisation) Theory can fruitfully be used and can provide important insights for behavioural studies. The study also analysed the properties of travel planning websites and established a link between travel choices and the content, provenance, design, presence of advertisements, and presentation of information. Different Software including WinMint, Alogit, Biogeme and SPSS were used in the research. (Supervisors Prof. Peter Bonsall and Prof. Gerard de Jong)

M.Eng. Research
Asian Institute of Technology, Thailand.

Masters thesis titled "***Travellers Response towards Advanced Traveller Information Systems (ATIS) in Bangkok***" developed driver behaviour models to analyse the effect of different types of ATIS on the traffic in a busy traffic corridor in Bangkok. The study included the survey of commuters at Second Stage Expressway locally known as the Si Rat Expressway. The research explored travellers' behaviour under non recurring congestion and their response towards various types of traffic information. Mail back questionnaires were distributed and discrete choice Logit models of traveller response were developed from both stated and revealed preference data types and were compared. The analysis suggested that accurate delay and prescriptive information, expected delay on usual route, travel time, congestion level, socio-economic characteristics and information sources are important attributes and affect diversion decisions. Moreover, The effects of ATIS were assessed by implementing the findings of the behavioural models into the traffic simulation software Paramics. Different Software including HieLow, Paramics and SPSS were used in the research. (Supervisors Prof. Yordphol Tanaboriboon and Dr. Shinya Hanaoka).

B.E Project
Mehran University of Engineering and Technology, Pakistan

B.E Final year project was tilted "***Quality Control in Road Construction***". The study investigated quality control measures of both materials and workmanship in Pakistan. Indus Highway Project was selected and quality control measures were investigated. The different tests were carried out on the materials and quality of workmanship was compared with the specifications. (Supervisor Prof. Ali Akbar Memon)

LANGUAGES

English fluent in all forms (i.e. Reading, Speaking and Writing), (Scored 263 out of 300 in TOEFL CBT in year 2003).
Urdu fluent in all forms and Sindhi fluent in all forms.