

TAWHID MONZUR, Ph.D.

CURRENT ADDRESS

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PERSONAL INFORMATION

Nationality: Bangladeshi
National id number: 7755821472
Date of birth: 06/08/1986
Language: Bangla, English & Japanese
Marital status: Single

CAREER OBJECTIVE

Doctorate degree holder (3.93/4.00 GPA) with proven skills in written and verbal communication, interpersonal and research. Seeking to use my abilities, knowledge and expertise for the position of Lecturer, Department of Environmental Science in your university. I am a hard worker as well as a devoted personal who can surly help the department of your university achieve its goals.

CAREER SUMMARY

I have served as a Teaching Assistant to the undergraduate and graduate level students as well as assisted professors in managing and designing course modules and evaluated the performance of the students through grading class tests and exams. Besides, I also have worked as exam proctors and served as a graduate school researcher. Areas of expertise include -

- Presenting and organizing large amount of information,
- Good at Microsoft office,
- Analyzing complex data and its presentation,
- Public speaking/presenting,
- Plan a project and deliver it on time,
- Convey complex ideas expertly.
- Hard worker and meticulous,
- Work well under pressure and a quick learner,
- Good at qualitative/quantitative analysis,
- Good at managing time,
- Team player and negotiator.

EDUCATION

Year 2014-2017: Doctor of Philosophy in Asia Pacific Studies (*Major: Urban Geography*), Ritsumeikan Asia Pacific University, Japan.

Dissertation Title: Recent Changes in the Spatial Structure of Employment: A Case Study of the Tokyo Metropolitan Area.

Supervisor: Professor Yan Li.

Year 2012-2014: Master of Science in International Cooperation Policy (*Major: Environmental Policy & Administration*), Ritsumeikan Asia Pacific University, Japan.

Thesis title: ESDA Techniques in identifying the Spatial Structure of the Tokyo Metropolitan Area: Preliminary Research.

Supervisor: Professor Yan Li.

Year 2008-2012: Bachelor of Social Science (*Hons*) in Health, Environment and Life Science, Ritsumeikan Asia Pacific University, Japan.

Thesis title: Urban Scatteration and Traffic Congestion: A case study on Tokyo.

Supervisor: Professor Mahichi Faezeh.

Year 2005-2008: Attended Bachelor of Social Science (*Hons*) in Social Welfare, University of Dhaka, Institute of Social Welfare and Research, Bangladesh. (*Not achieved*)

Year 2002-2004: Higher Secondary Certificate, Rangpur Cadet College, Bangladesh.

Year 1997-2001: Secondary School Certificate, Rangpur Cadet College, Bangladesh.

AWARDS AND RECOGNITIONS

Year 2008-2012: Asia Pacific University (APU) Tuition Reduction Scholarship (50%).

Year 2012: Outstanding Undergraduate Thesis Award “Certificate of Merit”.

Year 2012 - 2014: Asia Pacific University (APU) Tuition Reduction Scholarship (80%).

Year 2012 - 2014: Japan Student Services Organization (JASSO) Honors Scholarship.

Year 2014 - 2017: Asia Pacific University (APU) Tuition Reduction Scholarship (100%).

Year 2014 - 2017: Japanese Government (Monbukagakusho: MEXT) Scholarship.

RESEARCH EXPERIENCE

Ritsumeikan Asia Pacific University, Beppu, Japan

PhD researcher, (year 2014- 2017)

- Used Geographic Information System (GIS) and GeoDa to study the spatial structure and dynamics of economic activities in regional level.
- Investigate the recent changes in the spatial structure of employment and analyze data in Microsoft Excel.
- Proposed a new empirical approach in spatial structure studies.
- Discovered the potential employment centers and their economic characteristics in current time.
- Presented at national conference to 60 attendees.

Masters Researcher, (year 2012-2014)

- Conducted an in-depth investigation on the theories and models of the spatial structure studies.
- Analyzed data in Excel and SPSS.
- Discovered the differences in spatial pattern.
- Presented at the Kyoto regional conference regarding the importance of extensive analysis of the comprehensive spatial structure at metropolitan level.

Undergraduate Researcher, (year 2011-2012)

- Studied the factors behind the urban sprawl and scatteration in regional level.
- Prepared questionnaire to accumulate data related to the factors that have influenced the urban sprawl and scatteration in regional level.
- Created a poster and interpreted the factors behind sprawl and scatteration at the International Association for Asia Pacific Studies (IAAPS) conference.

TEACHING EXPERIENCE

Ritsumeikan Asia Pacific University, Beppu, Japan

Teaching Assistant, 2014-2015 (Geographic Information System)

- Taught undergraduate and graduate level students in learning the general usage of the Geographic Information System (GIS) by using ArcGIS software.
- Prepared and distributed course materials (lecture slides) and assigned students

to certain projects related to GIS.

Teaching Assistant, 2016-2017 (Urban Environment and Development)

- Helped undergraduate level students to understand the course objectives.
- Prepared lecture slides and presented urban spatial pattern of contemporary metropolitan areas for the class of 150 students.
- Checked and graded the assignments and final exam papers of the course.

Teaching Assistant, 2017 (Introduction to Intercultural Communication)

- Assisting Professor in preparing, managing and designing the course modules for the 169 students.
- Evaluating the performance of the students through the assigned class tests.

Invited presenter, 2015 & 2016 (Changing Social Landscapes)

- Presented my research related to recent changes in the spatial pattern of employment in contemporary metropolitan areas to graduate level students.

LEADERSHIP EXPERIENCE

**University of Dhaka, Institute of Social Welfare and Research (ISWR),
Dhaka, Bangladesh**

Member of English club & English Debating club, (2006-2008)

- English spoken, listening as well as writing assistance to the students.
- Conducted extempore speech, debate sessions, writing skill practice as well as current event sharing within the club members.
- Held debate sessions as well as competitions between institutes.
- To improve the analytical skills of the debaters.

SKILLS

- Proficient in using Geographic Information System (GIS) and GeoDa software.
- Proficient in using Microsoft Word, Excel, and PowerPoint.
- Proficient in using AVS Video Editor, and Movie Maker.
- Basic use of Q-GIS, GRASS-GIS, FRAGSTATS, and related software.
- Basic use of statistical software (SPSS).
- Good command over Bengali and English language and Intermediate Japanese (speaking).
- Social media and internet browsing.

TRAINING SUMMARY

1. Special Lecture (Academic Writing & Publishing quality Journal papers)

Year: July 10th, 2013

Institute: Ritsumeikan Asia Pacific University, Japan

Instructor: Ms. Amanda Hindle (Senior Language Editor of Edanz Group Japan).

Topics covered: How to structure an article to have a logical flow of information, how to perform a suitable literature review, how to use footnotes and endnotes, how to incorporate quotes, how to use subheadings, what kinds of things to include in a discussion, and how to write an abstract, research and publication ethics, how to target a journal appropriate for the submission, how to write a good cover letter, and how to respond to peer review comments.

2. Academic Manuscript Writing Workshop

Year: June 2nd - June 4th, 2016

Institute: Ritsumeikan Asia Pacific University, Japan

Instructor: Professor Dr. Donald Huisingsh, Emeritus, University of Tennessee (USA) & Editor-in-chief, *Journal of Cleaner Production* (Impact Factor: 4.959).

Topics covered: Academic writing, research proposal creation & logical and analytical thinking.

3. Special Lecture (Environment & Development)

Year: February 9th – February 13th, 2017

Institute: Ritsumeikan Asia Pacific University, Japan

Instructor: Professor Dr, Donald Huisingsh, Emeritus, University of Tennessee (USA) & Editor-in-chief, *Journal of Cleaner Production* (Impact factor: 4.959).

Topics covered: Team management, presenting research and findings, case study, conducting research, advanced writing & reading and Journal article creation.

CONFERENCES ATTENDED / PRESENTATIONS

1. *The International Association for Asia Pacific Studies (IAAPS).*
Year: 2011.
Title: “Urban Scatteration and Traffic Congestion: A case study on Tokyo.”
Presentation type: Poster presentation.
2. *Ritsumeikan Asia Pacific University 7th seminar conference.*
Year: 2012.
Title: “Urban Scatteration and traffic congestion: A case study on Tokyo.”
Presentation type: Oral presentation.
3. *International Geographical Union (IGU) Kyoto Regional Conference.*
Year: 2013.
Title: “Visualizing the spatial structure of the Greater Tokyo Urban Agglomeration.”
Presentation type: Oral presentation.
4. *23rd Geographic Information System Academic Research Conference, GIS Association of Japan (GISA).*
Year: 2014.
Title: “Spatial analysis of population distribution by employment sectors in Tokyo metropolitan area.”
Presentation type: Oral presentation.
5. *24th Geographic Information System Academic Research Conference, GIS Association of Japan (GISA).*
Year: 2015.
Title: “Urban Sprawl in Tokyo Metropolitan Area.”
Presentation type: Oral presentation.
6. *24th Geographic Information System Academic Research Conference, GIS Association of Japan (GISA).*
Year: 2015.
Title: “Employment Centers and Sub-Centers in the Kanto region.”
Presentation type: Oral presentation.
7. *13th Asia Pacific Conference (APC).*
Year: 2015.
Title: “Spatial analysis of population distribution by employment sectors in Tokyo metropolitan area.”

Presentation type: Oral presentation.

8. *25th Geographic Information System Academic Research Conference, GIS Association of Japan (GISA).*

Year: 2016.

Title: “Spatial Pattern change of Employment centers in Tokyo Metropolitan Area.”

Presentation type: Oral presentation.

PUBLICATIONS AND CONFERENCE PAPERS

Li, Yan & Monzur, Tawhid (2017). The Spatial Structure of Employment in the Metropolitan Region of Tokyo: A Scale-view. *Urban Geography*, DOI: 10.1080/02723638.2017.1308182. (*Peer-reviewed*)

Monzur, Tawhid (2017). Spatial Structure of Tokyo Metropolitan Area. *Ritsumeikan Journal of Asia Pacific Studies*, 35, 38-47.

Monzur, Tawhid & Li, Yan (2016). Spatial Pattern change of Employment Centers in Tokyo Metropolitan Area. *Proceeding of the 第25回 GISA 学术研究発表大会 (25th Geographic Information System Academic Research Conference)*, 25.

Monzur, Tawhid (2015). Urban Sprawl in Tokyo Metropolitan Area: 2000-2010. *Proceeding of the 第24回 GISA 学术研究発表大会 (24th Geographic Information System Academic Research Conference)*, 24.

Li, Yan & Monzur, Tawhid (2015). Employment Centers and Sub-centers in the Kanto Region. *Proceeding of the 第24回 GISA 学术研究発表大会 (24th Geographic Information System Academic Research Conference)*, 24.

Other works (unpublished)

1. Global Spatial Autocorrelation calculation.
2. Local Spatial Autocorrelation calculation.
3. Local G-statistics calculation.
4. Can Post Growth be the Next Urban Paradigm?

URL: https://www.researchgate.net/profile/Tawhid_Monzur2

INTERESTS

Basketball, Table tennis, Badminton, Volleyball, Weight lifting, Angling, Mountain climbing, Biking, Swimming, participating in voluntary works, Exchange programs and Sharing experiences.

REFERENCES

Professor Dr. Yan Li

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Sustainability Science
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Associate Professor Dr. Mahichi Faezeh

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Professor Dr. Shunso Tsukada

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Ph.D. Dissertation

Recent Changes in the Spatial Structure of Employment: A Case Study of the Tokyo Metropolitan Area

Summary

Intra-metropolitan spatial structure and its changes have become an important research theme in understanding the city since the end of World War II and the acceleration in the process of suburbanization that considerably affected the distribution of employment. Whereas numerous studies have been conducted from the theoretical and empirical point of view to understand and analyze the spatial structure of employment in contemporary metropolitan areas across the globe, those related to Tokyo Metropolitan Area (TMA) are insufficient. To fill the gap, this study explored the spatial structure of employment in the TMA through identification of the locations and rank hierarchies of its employment centers. The spatial pattern changes of employment centers including their growth, decline, and so on were also investigated.

The main purpose of this research was to a) identify the employment centers in different ranks; and b) to explore changes in the spatial pattern of employment centers in recent years. For this analysis, economic census datasets from the year 1999 and 2009 were chosen. The Local Indicator of Spatial Association (LISA) technique, specifically, the Local Moran's I was selected and employed for the center identification. For the visual representation and statistical analysis of the obtained results, GeoDa 1.6.7 and 1.8.12 and ArcGIS 10.1 were

used.

Through the research, a grid-approach (GA) is proposed for the detection of the comprehensive spatial structure of employment. Grid-cell maps were created based on spatial scale sizes: *250m by 250m or 0.0625km²*; *500m by 500m or 0.25km²*; *1000m by 1000m or 1km²*; *2000m by 2000m or 4km²*; and *3000m by 3000m or 9km²*, respectively. It is revealed that the GA better captured the comprehensive spatial structure of employment by reducing the spatial irregularity in the data. The research also proved that employment centers can be identified effectively by comparing them with the immediate surrounding areas.

To analyze the locations and changes of the employment centers in different ranks, the fine scale-size (*250m by 250m*) was chosen. The research revealed a total of 279 employment centers which are equal or greater than 1 km² (*hereafter abbreviated as ECs*) in different rank orders across the TMA in 2009. Further investigation on the location and rank of the ECs in *20km*, *30km* and *50km* distance bands disclosed that the majority of the upper rank ECs (EC1, EC2 & EC3) are located close to the city center (*20km*), whereas most of the lower rank ECs (EC4) are located in the peripheries (*30km*, *50km* & above). The research further revealed that out of 32 planned business centers in the 4th National Capital Region Development Plan (NCRDP), only 11 were confirmed as EC1. Besides, several EC1, EC2, and EC3 that were disclosed near the main center as well as in the peripheries went unnoticed by the 4thNCRDP.

The spatial pattern change analysis in the ECs between 1999 and 2009 was conducted firstly at the prefecture level and covered total employment and average density. The findings revealed that whereas employment has been more concentrated in the main center of the Tokyo-to; concentration of employment was detected prefecture-wide in the case of Kanagawa and Chiba between 1999 and 2009. The *average density* in Tokyo-to, Saitama, Kanagawa, and Chiba ECs became higher, indicating the strength of the ECs in these prefectures. Additionally, despite that most of the suburban areas were revealed showing a decreasing trend in employment density some of the ECs located in the suburban areas of Gunma in fact has become denser which indicates that not only the core areas but also some of the suburban areas have increased in density in the ten-year period.

The spatial pattern change analysis between 1999 and 2009 found nine types of spatial pattern changes in the ECs among which No change (31%), Shrinking (31%) and extended (25%) stands out in the ten-year period in TMA. Moreover, the highest number of shrinking ECs was detected in Saitama, whereas Kanagawa holds the highest number of extended and no change patterns of the ECs between 1999 and 2009. Also, a great number of ECs of the No change and extended were located between 30km to 50km distance bands from Tokyo CBD in the ten-year period. Further analysis of the nine change pattern types by prefectures revealed the locations of the specific change patterns of the ECs.

To conclude, the research presents GA assisted scale size analysis that can provide new outlooks on the metropolitan areas of the world in respect of spatial structure studies. Besides, an inclusive analysis of the spatial structure of

employment in TMA was conducted, which revealed the accurate location, rank, size, total employment, average density, and changes of the employment centers throughout the Tokyo Metropolitan Region that can assist in further development strategies.

Keywords: Spatial Structure; Tokyo Metropolitan Area; Employment Center; ESDA; LISA; Local Moran's I; CBD; NCRDP; EC.