

SHAKIL BIN KASHEM

Teaching Assistant Professor

Department of Geography and Geographic Information Science

University of Illinois at Urbana-Champaign

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EDUCATION

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|------|---|------|
| PhD | University of Illinois at Urbana-Champaign, Dept. of Urban & Regional Planning Dissertation – Moving Towards Disaster: Examining the Changing Pattern of Social Vulnerability in a Multi-Hazard Urban Environment Committee – Bev Wilson (Chair), Rob Olshansky, Arnab Chakraborty, Shannon Van Zandt | 2015 |
| MURP | Bangladesh University of Engineering & Technology (BUET), Dhaka, Bangladesh Thesis – Simulating Urban Growth Dynamics of Dhaka Metropolitan Area: A Cellular Automata Based Approach | 2008 |
| BURP | Bangladesh University of Engineering & Technology (BUET), Dhaka, Bangladesh Thesis – Sustainability of Development Trends in the Urban Fringe: A Case Study of North-eastern Dhaka | 2005 |

TEACHING INTERESTS

Introductory and advanced courses on GIS and Remote Sensing; Geospatial Modeling; Climate change and social vulnerability; Hazard Mitigation Planning; Environmental Policy and Planning; Housing Policy.

RESEARCH INTERESTS

Climate adaptive land use planning; Environmental planning and policy analysis within the domain of vulnerability science; Urban growth modeling; Social vulnerability and low-income housing; Big data and geoweb applications.

TEACHING EXPERIENCE

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| August 2015 – Present | Teaching Assistant Professor Introduction to GIS (GEOG 379) Spatial Problem Solving (GEOG 380) Digital Cartography and Map Design (GEOG 473) GIS Professional Seminar (GEOG 595) Department of Geography and Geographic Information Science, University of Illinois at Urbana-Champaign |
| 2012 – 2015 | Instructor GIS for Planners (UP 418), Department of Urban and Regional Planning, University of Illinois at Urbana-Champaign Nominated in the “List of Teachers Ranked as Excellent by their Students” (Spring 2014) |

- 2010 – 2012 **Graduate Assistant (ad-hoc consulting)**
 Statistics and GIS Group, Applied Technologies for Learning in
 the Arts and Sciences (ATLAS), University of Illinois at Urbana-
 Champaign
- 2009 – 2010 **Teaching Assistant**
 Intermediate Microeconomic Theory (ECON 302), Department of
 Economics, University of Illinois at Urbana-Champaign
- 2005 – 2009 **Lecturer**
 Taught courses on GIS and Remote Sensing, Project Planning,
 Operations Research & Systems Analysis, Site and Area Planning,
 Natural Hazards & Disaster Management, at the Department of
 Urban and Regional Planning, Bangladesh University of
 Engineering and Technology (BUET), Dhaka, Bangladesh

STUDENT ADVISING AND MENTORSHIP

- 2015 – Present **Program Advisor**
 Professional Science Master's in GIS, Department of Geography
 and GIS, University of Illinois at Urbana-Champaign
- 2008 – 2009 **Co-Supervisor**
*Cyclone Wind Hazard Assessment in the Coastal Region of
 Bangladesh*, Kazi Nusrat Jahan, Shakila Kayum and Sayed
 Rokanuzzaman Shovan, Dept of Urban and Regional Planning,
 Bangladesh University of Engineering & Technology, Dhaka.

PUBLICATIONS IN PEER-REVIEWED JOURNALS

Wilson, B., and **Kashem, S.B.** Forthcoming. Spatially concentrated renovation activity and housing appreciation in the city of Milwaukee, Wisconsin, *Journal of Urban Affairs*, Accepted for publication on September 19, 2016

Kashem, S.B., Wilson, B., and Van Zandt, S. (2016). Planning for climate adaptation: Evaluating the changing patterns of social vulnerability and adaptation challenges in three coastal cities. *Journal of Planning Education and Research* focus issue on 'Land Use Planning for Climate Change Adaptation', 36(3): 304-318

Chakraborty, A., Wilson, B., and **Kashem, S.B.** (2015). The pitfalls of regional delineations in land use modeling: Implications for Mumbai region and its planners. *Cities*, 45: 91-103

Kashem, S.B., Irawan, A., and Wilson, B. (2014), Evaluating the dynamic impacts of urban form on transportation and environmental outcomes in U.S. cities. *International Journal of Environmental Science and Technology*, 11(8): 2233-2244 DOI: 10.1007/s13762-014-0630-z

Rashid, S., Yoon, Y. and **Kashem, S.B.** (2011), Assessing the Potential Impact of Microfinance with Agent-Based Modeling. *Economic Modeling*, 28(4): 1907-13

Kashem, S.B., Chowdhury, T.A., Majumder, J. and Rahman, M.A. (2009), Quantifying Urban Form: A Case Study of Rajshahi City. *Journal of Bangladesh Institute of Planners*, 2, 39-48.

Kashem, S.B. and Hafiz, R. (2008), Sustainability of Development Trends in the Urban Fringe: A Case Study on North-Eastern Dhaka City. *Protibesh*, 12(2), 55-67

BOOK CHAPTER

Kashem, S.B., Talukdar, M.A., Morshed, M.M. (2013). Sustainability Assessment of Fringe Area Development of Dhaka City, Bangladesh, in Jahan, S. and Kalam, AKMA. (ed.) *Dhaka Metropolitan Development Area and Its Planning Problems, Issues and Policies*, Bangladesh Institute of Planners, Dhaka, Bangladesh

CONFERENCE PRESENTATIONS

Kashem, S.B. (2016), “*Location-Aware Active Citizenship: Exploring the challenges for developing an enabling geoweb*”, 2016 Association of American Geographers Annual Meeting, San Francisco, CA, March 29- April 2, 2016

Kashem, S.B. (2015), “*Changing patterns of social vulnerability in the multi-hazard environment of Houston: evaluating the role of subsidized low-income housing programs*”, 55th Annual Conference of the Association of Collegiate Schools of Planning (ACSP), Houston, Texas, October 22-25, 2015

Kashem, S.B. (2015), “*Subsidized low-income housing in a neoliberal era: A critical review through the lens of vulnerability production and environmental justice*”, International Sociological Association Research Committee 43: Housing and the Built Environment, Chicago, September 17-19, 2015

Kashem, S.B. (2015) “*Exploring the riddle of livelihood and housing practices in a contested space: A study of hazard-prone rural Bangladesh*”, Initiative on Climate Adaptation Research and Understanding through the Social Sciences (ICARUS) 4th Global Meeting, University of Illinois, Urbana-Champaign, IL, May 7-10, 2015

Kashem, S.B. and Wilson, B. (2015), “*Locating housing subsidies: A critical review of low-income housing programs through the lens of vulnerability production and environmental justice*”, 2015 Association of American Geographers Annual Meeting, Chicago, IL, April 21-25, 2015

Kashem, S.B. and Wilson, B. (2014), “*Developing CyberGIS Pedagogy for Urban Planning Practice and Research*”, The Second International Conference on CyberGIS and Geodesign, Redlands, California, August 19-21, 2014

Kashem, S.B. and Wilson, B. (2014), “*Subsidized Low Income Housing and Social Vulnerability in a Multi-hazard Urban Area: A Case Study of Houston, Texas*”, Urban Affairs Association 44th Annual Conference, San Antonio, Texas, March 19-22, 2014.

Kashem, S.B. and Wilson, B. (2013), “*Urban Growth and Social Vulnerability Dynamics: A Comparative Analysis of Three Coastal Metropolitan Areas*”, Urban Affairs Association 43rd Annual Conference, San Francisco, California, April 3-6, 2013.

Kashem, S.B., Irawan, A., and Wilson, B. (2012), “*Examining the Impact Dynamics of Urban Sprawl on Transportation*”, 53rd Annual Conference of the Association of Collegiate Schools of Planning (ACSP), Cincinnati, Ohio, November 1-4, 2012

Irawan, A. and **Kashem, S.B.** (2012), “*Ports and Regional Economic Performance Across US Counties*”, 53rd Annual Conference of the Association of Collegiate Schools of Planning (ACSP), Cincinnati, Ohio, November 1-4, 2012.

PROFESSIONAL EXPERIENCE

- 2014 - 2015 **CyberGIS Fellow**
NSF CyberGIS Project, CyberGIS Center for Advanced Digital and Spatial Studies and National Center for Supercomputing Applications, University of Illinois at Urbana-Champaign
- 2010 - 2014 **Research Assistant**
University of Illinois at Urbana-Champaign; Projects worked on:
- Residential energy usage and urban form (Dr. Bev Wilson)
- Urban growth modeling of Mumbai (Dr. Arnab Chakraborty)
- Demographic analysis of Beardstown, IL (Dr. Faranak Miraftab)
- Geospatial analysis for voting redistricting (Dr. Jorge Chapa)
- Survey of engineers on life-long learning, joint study of National Academy of Engineers and the University of Illinois (ATLAS),
- Survey and analysis of broadband internet users (ATLAS)
- 2007 – 2009 **Team Leader**
Feasibility study of mason training and development of IEC materials for mason training on disaster resistant house construction, Funded by Oxfam (GB), Bangladesh
- 2006 - 2008 **Junior Consultant**
Preparation of Land Use Plan of Chittagong University of Engineering & Technology, by the Dept. of Urban and Regional Planning, BUET

AWARDS AND HONORS

- 2015 Outstanding Doctoral Student Award, Department of Urban and Regional Planning, University of Illinois at Urbana-Champaign
- 2014 University-wide List of Teachers Ranked as Excellent, University of Illinois at Urbana-Champaign (Spring 2014)
- 2013 Graduate College Conference Travel Award for Graduate Students of the University of Illinois at Urbana-Champaign
- 2012 Graduate Student Award by the ESRI Development Center at the University of Illinois at Urbana-Champaign
- 2001 – 2005 University Merit Scholarship: Obtained in eight consecutive academic terms at the undergraduate level for outstanding results.
- 2001 – 2005 Dean's List Awards: Obtained for achieving honors marks in different academic years.

PROFESSIONAL AND COMMUNITY SERVICE

Journal Reviewer

Peer-reviewed Journals: *Energy, Economic Modeling, International Journal of Environmental Science and Technology, Journal of Bangladesh Institute of Planners*

Webmaster and Seminar Coordinator (2011 – 2014)

Doctoral Students in Urban Planning (DSUP)-association of Doctoral Students at the Department of Urban and Regional Planning, University of Illinois at Urbana-Champaign

Vice-President (2011 – 2012)

Bangladeshi Students' Association (BSA) at the University of Illinois at Urbana-Champaign

Conference Organizing Committee Member

10th Pacific Regional Science Conference Organization (PRSCO) Summer Institute, Dhaka (May 2008)

Workshop Facilitator

BUET-TU Dortmund Joint Students' Workshop on *Dynamics in Urban Informal Settlements*, organized jointly by Department of Urban and Regional Planning, BUET and Department of Urban and Regional Planning, University of Technology, Dortmund, Germany (March 2008)

Assistant Editor (2006 – 2008)

BIP News Letter, Newsletter of the Bangladesh Institute of Planners (BIP)