SHAKIL BIN KASHEM

Landscape Architecture and Regional & Community Planning

Kansas State University

3002 Seaton Hall

920 N 17th St., Manhattan, KS 66506

E-mail: shakilkashem@ksu.edu

EDUCATION

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

RESEARCH INTERESTS

Urban social vulnerability; Community resilience and adaptation; Geospatial Analysis and Planning; Applications of Big Data for disaster risk management; Critical GIS and geoweb; Housing policy; Urban growth modeling.

EMPLOYMENT

August 2020 – Present	Assistant Professor Department of Landscape Architecture and Regional & Community Planning, Kansas State University
2015 – 2020	Teaching Assistant Professor Department of Geography and Geographic Information Science, University of Illinois at Urbana-Champaign
2012 – 2015	Instructor/Graduate Assistant Department of Urban and Regional Planning, University of Illinois at Urbana-Champaign
2010 – 2012	Graduate Assistant (ad-hoc consulting) Statistics and GIS Group, Applied Technologies for Learning in the Arts and Sciences (ATLAS), University of Illinois
2009 – 2010	Teaching Assistant Department of Economics, University of Illinois at Urbana- Champaign

2005 - 2009

Lecturer

Department of Urban and Regional Planning, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

PUBLICATIONS IN PEER-REVIEWED JOURNALS

Kashem, S.B. (2019), Housing practices and livelihood challenges in the hazard-prone contested spaces of rural Bangladesh. *International Journal of Disaster Resilience in the Built Environment*, accepted on 9 September 2019 DOI: 10.1108/IJDRBE-04-2019-0019

Zhang, Z., Hu, H., Yin, D., **Kashem, S. B.**, Li, R., Cai, H., Perkin, D., and Wang, S. (2018). A CyberGIS-enabled Multi-Criteria Spatial Decision Support System: A Case Study on Flood Emergency Management, *International Journal of Digital Earth*, 12:11, 1364-1381, DOI: 10.1080/17538947.2018.1543363

Hannon, B., and **Kashem, S.B.** (2018). Taming the Wet Prairie of East Central Illinois, *Illinois Geographer*, 59 (2): 94-113

Wilson, B., and **Kashem, S.B.** (2017). Spatially concentrated renovation activity and housing appreciation in the city of Milwaukee, Wisconsin, *Journal of Urban Affairs*, 39(8): 1085-1102

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.** (2019), "Social Vulnerability in the Multi-Hazard Environments of Rapidly Growing Metro Areas: Exploring the Role of Low-Income Housing Provisions", 59th Annual Conference of the Association of Collegiate Schools of Planning (ACSP), Greenville, South Carolina, October 24-27, 2019
- Tuli, S., and **Kashem, S.B**. (2019), "Exploring the Nexus Between Knowledge Capital and Social Vulnerability: A Comparative Study on the U.S. and Australian Cities", 59th Annual Conference of the Association of Collegiate Schools of Planning (ACSP), Greenville, South Carolina, October 24-27, 2019
- **Kashem, S.B.** (2019), "A framework for CyberGIS-enabled multi-scale space-time index for analyzing urban social vulnerability dynamics", 2019 Association of American Geographers Annual Meeting, Washington, DC, April 3 7, 2019
- Zhang, Z., Hu, H., Yin, D., **Kashem, S. B.**, Li, R., Cai, H., Perkin, D., and Wang, S. (2019). "A *CyberGIS-enabled Multi-Criteria Spatial Decision Support System: A Case Study on Flood Emergency Management*", 2019 Association of American Geographers Annual Meeting, Washington, DC, April 3 7, 2019
- **Kashem, S.B**. (2017), "Social Vulnerability & Low-Income Housing Programs: Evaluating the Challenges in Multi-Hazard Environments of Rapidly Growing Metro Areas", 57th Annual Conference of the Association of Collegiate Schools of Planning (ACSP), Denver, Colorado, October 12-15, 2017
- **Kashem, S.B.**, Chakraborty, A, and Dewan, A. (2017), "*Urban Sprawl & Social Vulnerability in Developing Megacities: Evidence from Dhaka*", 57th Annual Conference of the Association of Collegiate Schools of Planning (ACSP), Denver, Colorado, October 12-15, 2017
- **Kashem, S.B.** (2017), "Analyzing spatial and temporal context sensitivity of emotion mapping: an approach to apply human sensor data for urban planning and design", 2017 Association of American Geographers Annual Meeting, Boston, MA, April 5 9, 2017
- **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.

GRANTS

- **Kashem, S. B.** PI. Integrating Augmented Reality with GIS (AR-GIS): Developing Teaching and Learning Modules and Applications, VR@Illinois Seed Grant, University of Illinois at Urbana Champaign, 2018-2019, \$6,000
- **Kashem, S.B.** PI. Developing an Engaging Geospatial Learning Experience through Stories, Provost's Faculty Retreat Grant, University of Illinois at Urbana Champaign, 2017-2018, \$4,000
- Wilson, B., PI & Kashem, S.B., Co-PI. Developing CyberGIS Pedagogy for Urban Planning Practice and Research, NSF CyberGIS Project, CyberGIS Center for Advanced Digital and Spatial Studies Fellow, University of Illinois at Urbana Champaign, 2014-2015, \$8,000

STUDENT ADVISING AND MENTORSHIP

2015 - 2020	Program Advisor
	Professional Science Master's in GIS, Department of Geography
	and GIS, University of Illinois at Urbana-Champaign
2017 – 2018	MSc Thesis Supervisor: Steven Oxley
2016 – 2019	Undergraduate Senior Thesis Supervisor:
2010 - 2019	Onder graduate Semor Thesis Supervisor.

Martha Rubin, Grace Newton Department of Geography and GIS, University of Illinois at Urbana-Champaign

PROFESSIONAL EXPERIENCE AND PROJECT SUPERVISION

2015 - Present *Project Advisor*

University of Illinois at Urbana-Champaign *Ongoing Projects:*

- Evaluating space-time determinants of crime patterns in an urban environment, Graduate Capstone project by Busranur Cakal and Hyun Seok Moon, MS in Geographic Information Science (to be completed in December 2019)
- Determining neighborhood typology based on restaurant data and socio-economic characteristics: an application of opensource geospatial tools, Graduate Capstone project by Yang Qiu, MS in Geographic Information Science (to be completed in December 2019)
- Geo Visualization of Global Film History, Graduate Capstone project by Tianshun Deng, MS in Geographic Information Science (to be completed in December 2019)
- Report Card visualization through web application, Graduate Capstone project by Wenhao Gu, MS in Geographic Information Science (to be completed in December 2019)

Completed projects:

- Analyzing space-time geography of transit accessibility, Graduate Capstone project by Yatong Zhang, MS in Geographic Information Science (Completed in April 2019)
- Predicting road accident outcomes in Illinois State using multilevel models, Graduate Capstone project by Kixian Yang, MS in Geographic Information Science (Completed in December 2018)
- Data Governance Structure for RPC, Graduate Capstone project by King Ming Lai, MS in Geographic Information Science (Completed in December 2017)
- Creating an interactive webmap with data retrieved from database, Graduate Capstone project by Yunqi Zhang, MS in Geographic Information Science (Completed in December 2017)
- Geospatial analysis of campus emergency phone system, Graduate project by Jiandong Liu, MS in Geographic Information Science (Completed in May 2016)

2010 - 2014 Research Assistant

University of Illinois at Urbana-Champaign; Projects worked on:

- Residential energy usage and urban form, with Dr. Bev Wilson, Department of Urban and Regional Planning
- Urban growth modeling of Mumbai, with Dr. Arnab Chakraborty, Department of Urban and Regional Planning

- Demographic analysis of Beardstown, IL, with Dr. Faranak Miraftab, Department of Urban and Regional Planning
- Geospatial analysis for voting redistricting, with Dr. Jorge Chapa, Department of Sociology
- 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
2014-2016	University-wide List of Teachers Ranked as Excellent, University of Illinois at Urbana-Champaign (Spring 2014, Spring 2016, Fall 2017)
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 SERVICES

Organizing Committee Chair (2017-2019)

GIS Day at the University of Illinois at Urbana-Champaign

Organizing Committee Member (2016)

GIS Day at the University of Illinois at Urbana-Champaign

Journal Reviewer

Peer-reviewed Journals: Computers, Environment and Urban Systems, Journal of Planning Education and Research, 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)