

# SHAKIL BIN KASHEM

Landscape Architecture and Regional & Community Planning  
Kansas State University  
1109 Seaton Hall  
920 N Martin Luther King Jr. Dr., Manhattan, KS 66506  
E-mail: shakilkashem@ksu.edu

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## EDUCATION

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	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

## RESEARCH INTERESTS

Urban social vulnerability; Community resilience and adaptation; Urban Food System; Brownfield Redevelopment; Housing policy; Applications of Big Data; Geospatial Analysis and Planning; Critical GIS and geoweb; Urban growth modeling.

## EMPLOYMENT

2025 – Present	<b><i>Associate Professor</i></b> Department of Landscape Architecture and Regional & Community Planning, Kansas State University
2020 – 2025	<b><i>Assistant Professor</i></b> Department of Landscape Architecture and Regional & Community Planning, Kansas State University
2015 – 2020	<b><i>Teaching Assistant Professor</i></b> Department of Geography and Geographic Information Science, University of Illinois at Urbana-Champaign
2012 – 2015	<b><i>Instructor/Graduate Assistant</i></b> Department of Urban and Regional Planning, University of Illinois at Urbana-Champaign
2010 – 2012	<b><i>Graduate Assistant (ad-hoc consulting)</i></b> 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

## PROFESSIONAL MEMBERSHIP AND CERTIFICATION

- American Planning Association (APA)
- American Institute of Certified Planners (AICP), July 2022
- Association of Collegiate Schools of Planning (ACSP)
- Member
- Association of American Geographers (AAG)
- Member
- University Consortium for Geographic Information Science (UCGIS)
- Member
- International Society for Urban Informatics
- Member

## PUBLICATIONS IN PEER-REVIEWED JOURNALS

Hossain S and **Kashem SB** (2025) Transportation resilience and food security: developing a conceptual framework through literature review. *Front. Sustain. Food Syst.* 9:1569474  
<https://doi.org/10.3389/fsufs.2025.1569474>

Lee, C. A., **Kashem, S.**, & Baker, D. (2024). Affordable Housing Through Community Land Trusts (CLTs): Examining Factors Associated with the Number of Units in CLTs. *Housing Policy Debate*, 1-16, <https://doi.org/10.1080/10511482.2024.2362643>

Paul, B., Stimers, M., Sharif, M., **Kashem, S.**, & Lu, M. (2024). Population Recovery in the US Communities Affected by Tornadoes, 2000-2010. *Natural Hazards*. 1-20,  
<https://doi.org/10.1007/s11069-024-06598-x>

Wilson, B., **Kashem, S.B.**, & Slonim, L. (2024). Modeling the relationship between urban tree canopy, landscape heterogeneity, and land surface temperature: A machine learning approach, *Environment and Planning B: Urban Analytics and City Science*,  
<https://doi.org/10.1177/23998083241226848>

**Kashem, S. B.**, & Gallo, D. (2023). Smart Engagement in Small Cities: Exploring Minority Participation in Planning. *Urban Planning*, 8(2), 44-56. <https://doi.org/10.17645/up.v8i2.6607>

**Kashem, S. B.**, Baker, D. M., González, S. R., & Lee, C. A. (2021). Exploring the nexus between social vulnerability, built environment, and the prevalence of COVID-19: A case study of Chicago. *Sustainable Cities and Society*, 103261. <https://doi.org/10.1016/j.scs.2021.103261>

**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*, 10:5, 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 CHAPTERS**

Kamal, J.B., **Kashem, S.B.**, Rashid, S. (2025). Islamic Versus Mainstream Bank Behavior Using Agent-Based Modelling Simulation. In: Taghizadeh-Hesary, F., Mohd Thas Thaker, H., Bhatti, M.I., Allah Pitchay, A. (eds) *Islamic Financial Markets and Institutions. Contributions to Economics*. Springer, Singapore. [https://doi.org/10.1007/978-981-96-8650-6\\_3](https://doi.org/10.1007/978-981-96-8650-6_3)

**Kashem, S. B.**, & Kim, H. J. (2025). Social Networks and Emergency Response. In *The Routledge Handbook of Disaster Response and Recovery*, edited by Bimal Kanti Paul and Luke Juran. Routledge.

**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

Edrish, M. B., and **Kashem, S.B.** (2025). “*Changing Foodscape of Kansas City Metropolitan Area: A Spatio-Temporal Analysis*”, 2025 Annual Conference of the Association of Collegiate Schools of Planning (ACSP), October 23-25, 2025, Minneapolis, MN

Hossain, S., and **Kashem, S.B.** (2025). “*Impact of Transport Resilience on Local Food Security During Disruptions*”, 2025 Annual Conference of the Association of Collegiate Schools of Planning (ACSP), October 23-25, 2025, Minneapolis, MN

Neer, A., Rishi, S., and **Kashem, S.B.** (2025). “*Engagement and Service-Learning in Planning Education: Understanding Student Learning Outcomes*”, 2025 Annual Conference of the Association of Collegiate Schools of Planning (ACSP), October 23-25, 2025, Minneapolis, MN

Roberts, G., Rishi, S., and **Kashem, S.B.** (2025). “*Promoting Housing Production Through Brownfield Redevelopment*”, 2025 Annual Conference of the Association of Collegiate Schools of Planning (ACSP), October 23-25, 2025, Minneapolis, MN

Hossain, S., and **Kashem, S.B.** (2025). “*Exploring the Effects of Built Environment and Food Access on Health Outcomes in Low-Income Communities: A Structural Equation Modeling Approach*” paper presented at the International Conference on Urban Affairs, April 15-19, 2025, Vancouver, Canada

Depperschmidt, O., and **Kashem, S.B.** (2025). “*How Long Term Housing Demand is Being Addressed in Refugee Resettlement*” paper presented at the International Conference on Urban Affairs, April 15-19, 2025, Vancouver, Canada

Hossain, S., and **Kashem, S.B.** (2025). “*Exploring the Effects of Built Environment and Food Access on Health Outcomes in Low-Income Communities: A Structural Equation Modeling Approach*” paper presented at the Active Living Conference 2025, March 16-20, 2025, Manhattan, KS

**Kashem, S.B.**, Hossain, S., & Kim, H. (2024). “*Virtual and Augmented Reality Technologies for Flood Risk Awareness*”, 2024 Annual Conference of the Association of Collegiate Schools of Planning (ACSP), November 9, 2024, Seattle, WA

Natallie, W., and **Kashem, S.B.** (2024). “*Post-Disaster Recovery in Small Towns: Learning from the Experience of Tornado Recovery in Two Communities*” poster presented at the International Conference on Urban Affairs, April 24-27, 2024, New York, NY

**Kashem, S.B.**, Hossain, S., Kim, H., & Natarajan, B. (2024). “*VR and AR Technologies for Flood Risk Awareness*”, poster presented at 2024 ARISE Annual Symposium, April 11-12, 2024, Olathe, KS

**Kashem, S.B.** (2024). “*Small town revitalization through land use reforms*”, paper presented at Kansas Association of Realtors Winter Advocacy Conference, 23 January 2024, Manhattan, KS

**Kashem, S.B.** (2024). “*Urban growth, flood exposure, and social vulnerability dynamics: a case study on Dhaka Metropolitan Area*”. BAPA-BEN Conference on Sustainable Urbanization: Challenges and Solutions, 13 January 2024, Dhaka, Bangladesh

**Kashem, S.B., Lee, C. A., & Baker, D.** (2023). “*Identifying the Local Determinants of Community Land Trust Formation in Small and Mid-Size Cities*”. 2023 Annual Conference of the Association of Collegiate Schools of Planning (ACSP), October 21, 2023, Chicago, Illinois

**Kashem, S. B., and Rishi, S.** (2022). “*Housing choice, life events, and land use constraints in a small town: a Space-Time GIS approach*”. 62<sup>nd</sup> Annual Conference of the Association of Collegiate Schools of Planning (ACSP), November 5, 2022, Toronto, Ontario

**Kashem, S. B., and Wilson, B.** (2022). “*Modeling the Effects of Tree Canopy and Water Body Composition and Configuration on Land Surface Temperature: A Machine Learning Approach*”. 62<sup>nd</sup> Annual Conference of the Association of Collegiate Schools of Planning (ACSP), November 3, 2022, Toronto, Ontario

**Kashem, S. B.** (2022). “*Open Source GIS for Resilience Planning*”, presented at 2022 Kansas Chapter American Planning Association Conference, October 20-21, 2022, Topeka, KS

**Kashem, S. B., Baker, D. M., González, S. R., & Lee, C. A.** (2021). “*Exploring the nexus between social vulnerability, built environment, and the prevalence of COVID-19: A case study of Chicago*”. 61<sup>st</sup> Annual Conference of the Association of Collegiate Schools of Planning (ACSP), October 21, 2021

Kamal, J.B., **Kashem, S.B.**, Rashid, S. (2021), “*Efficiency of Islamic vs. Conventional banks: Evidence from Agent Based Modelling simulation*”. Foundation of Islamic Finance Conference (FIFC) 2021, Sunway University, Malaysia, 20- 22 March 2021, (received best paper award)

**Kashem, S.B.** (2020), “*Analyzing Space-Time Dynamics of an Urban System to Support Planning Applications: a CyberGIS-Based Approach*”, 60<sup>th</sup> Annual Conference of the Association of Collegiate Schools of Planning (ACSP), Online, November 5-8, 2020

**Kashem, S.B.** (2019), “*Social Vulnerability in the Multi-Hazard Environments of Rapidly Growing Metro Areas: Exploring the Role of Low-Income Housing Provisions*”, 59<sup>th</sup> 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*”, 59<sup>th</sup> 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*”, 57<sup>th</sup> 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*”, 57<sup>th</sup> 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*”, 55<sup>th</sup> 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) 4<sup>th</sup> 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 44<sup>th</sup> 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 43<sup>rd</sup> 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*”, 53<sup>rd</sup> 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*”, 53<sup>rd</sup> Annual Conference of the Association of Collegiate Schools of Planning (ACSP), Cincinnati, Ohio, November 1-4, 2012.

## GRANTS

**Kashem, S.B.** PI. Strengthening Community Resilience through Brownfield Redevelopment, LARCP Faculty Fellowship for Technical Assistance to Brownfields (TAB) at Kansas State University, 2024-2027, \$50,000/year

Pliakoni, E. PI. et. al. **Kashem, S. B.** (Senior Personnel and Seed Project PI), Development of resilient urban food systems that ensure food security in the face of climate change, funded through the Game-changing Research Initiation Program (GRIP) of Kansas State University, 2024-2027, \$950,000

**Kashem, S. B.** PI, and Hyung Kim & Bala Natarajan, Co-PIs. Virtual and Augmented Reality Technologies for Enhancing Disaster Risk Awareness in Vulnerable Communities, project funded through Research & Education Innovation (REI) Award for Research in Resiliency and Smart Infrastructure of Kansas NSF EPSCoR, 2023-2024, \$70,858

Susmita Rishi, **Shakil Kashem**, and John Verssue, 2023-2024 Susan and Paul Kissinger Award, Kansas State University, \$3,500

**Kashem, S. B.**, C. Aujean Lee, Dwayne Baker, Community Land Trusts in Welcoming Cities: Building Inclusive Housing Models for Immigrants; project funded through *Housing Policy Innovation in Small and Midsize Cities* program of Housing Solutions Lab at NYU Furman Center, with grant from the Robert Wood Johnson Foundation, 2022-2024, \$25,000

Lee R. Skabelund, Howard Hahn, **Shakil Kashem**, 2021-2022 Susan and Paul Kissinger Award, Kansas State University, \$5,000

**Kashem, S. B.** PI. Exploring the nexus between social vulnerability, built environment, and the spread of COVID-19: a multi-city study, Spring 2021 University Small Research Grant, Kansas State University, 2021-2022, \$4,050

**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

## AWARDS AND HONORS

- |             |   |
|-------------|---|
| 2025        | Honorable Mention, Graduate Faculty Mentor Award 2024-2025, Graduate School, Kansas State University  |
| 2024        | Certificate of Recognition for Outstanding Dedication to Graduate Mentoring, Graduate School, Kansas State University   |
| 2022-2023   | UCGIS-IGUIDE Community Champion 2022-2023, Project Title: Big Data and GeoAI for Urban Planning: Current Practices and Future Prospects. Amount granted: \$3,000  |
| 2023        | Received K-State Open Access Publishing Fund (KOAPF) Award from K-State Libraries for my article, "Smart engagement in small cities: exploring minority participation in planning" to be published in <i>Urban Planning</i> . Amount granted: \$1,050   |
| 2021        | Best paper award from the Foundation of Islamic Finance Conference (FIFC):<br>Kamal, J.B., <b>Kashem, S.B.</b> , Rashid, S. (2021), " <i>Efficiency of Islamic vs. Conventional banks: Evidence from Agent Based Modelling simulation</i> ". Foundation of Islamic Finance Conference (FIFC) 2021, Sunway University, Malaysia, 20- 22 March 2021 |
| 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.  |

## STUDENT ADVISING AND MENTORSHIP

2021 – 2025

### **MPR Major Professor**

*Shahadat Hossain* (MRCP, 2025), The influence of transport resiliency on community level food security, Kansas State University

*Olivia Depperschmidt* (MRCP, 2025), How long-term housing demand is being addressed in refugee resettlement, Kansas State University

*Lance Wackerla* (MRCP, 2024), Creating mixed-income neighborhoods through middle housing infill development: A Case study of St. Louis, LARCP, Kansas State University

*Natalie Walls* (MRCP, 2024), Post-disaster recovery in small towns: learning from the experience of tornado recovery in two communities, LARCP, Kansas State University

*John Pileggi* (MRCP, 2024), Dilapidated to Vibrant: Adaptive Reuse as a Catalyst for Regenerating Urban Areas Through Public Private Partnerships, LARCP, Kansas State University

*Zachary Abell* (MRCP, 2023), Planning for Equity: An Evaluation of Hazard Mitigation Plans LARCP, Kansas State University

*Nathan Harrell* (MRCP 2023): Evaluating methodological approaches for measuring park accessibility: a meta-analysis, LARCP, Kansas State University

*Dora Gallo* (MRCP 2022): Minority engagement in planning processes, LARCP, Kansas State University

*DJ Johnson* (MRCP 2022): How can vacant properties be used to revitalize North St. Louis City? LARCP, Kansas State University

*Madison Kueny* (MRCP, ongoing), LARCP, Kansas State University

*Maria Binte Edrish* (MRCP, ongoing), LARCP, Kansas State University

Jess Hughes (MSCD, ongoing), LARCP, Kansas State University

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:**

Martha Rubin, Grace Newton

Department of Geography and GIS, University of Illinois at Urbana-Champaign

## PROFESSIONAL EXPERIENCE AND PROJECT SUPERVISION

2015 - 2020

### **Project Advisor**

University of Illinois at Urbana-Champaign

*Completed 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 (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 (Completed in December 2019)
- Geo Visualization of Global Film History, Graduate Capstone project by Tianshun Deng, MS in Geographic Information Science (Completed in December 2019)
- Report Card visualization through web application, Graduate Capstone project by Wenhao Gu, MS in Geographic Information Science (Completed in December 2019)
- 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

## **PROFESSIONAL AND COMMUNITY SERVICES**

**Faculty Advisor** (2022-present)  
Student Planning Association (SPA), Kansas State University

**Committee Member** (2022, 2023)  
Association of Collegiate Schools of Planning (ACSP) selection committee member for the  
Barclay Gibbs Jones Award for the Best Dissertation in Planning

**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, Journal of Planning Literature, Sustainable Cities and Society, Journal  
of Urban Affairs, Planning Practice & Research, Applied Geography, Professional Geographer,  
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)