

# ARMITA KAR

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## Ph.D. Student specialized in Transport Geography, GIS and Urban Informatics.

- Secured 1<sup>st</sup> position in the Bachelor of Urban and Regional Planning (URP) program.
- Awarded Prime Minister Gold Medal (2015) from University Grant Commission of Bangladesh.
- Lecturer, Department of URP, Bangladesh University of Engineering & Technology (2015 – 2017).
- Graduate Teaching Assistant at the Department of Geography, University of Utah (2017 – 2019).
- Graduate Fellow at the Department of Geography, University of Utah (2019-present)

## EDUCATIONAL QUALIFICATION

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	<b>Ph.D. in Geography</b>
Institution	The Ohio State University (2019 – Present)
	<b>Master of Science in Geography</b>
Institution	The University of Utah (2017 - 2019)
CGPA	4.00 on a scale of 4.00
	<b>Bachelor of Urban and Regional Planning</b>
Institution	Bangladesh University of Engineering and Technology (2010-2015)
CGPA	3.84 on a scale of 4.00 (1 <sup>st</sup> in the class)

## SKILLS

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GIS Skills	ArcGIS Desktop, ArcGIS Pro, ArcGIS online, WebGIS, IDRISI, Erdas Imagine
Programming Skills	Python, R Programming, NetLogo, HTML, Javascript, SQL
Other Software Skill	Autocad, SPSS, MS Project, Adobe Illustrator

## EXPERIENCE

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	<b>Graduate Teaching Assistant, Department of Geography</b>
Institution	University of Utah (August 2017 – May 2019)
Courses taught	Intro to GIS, Intro to Python, Geographical Analysis, World Regional Geography
	<b>GIS Intern</b>
Institution	The DIGIT Lab, University of Utah (May 2018 – July 2018)
Responsibilities	Worked on producing military standard map series for a project of Rockwell Collins, Inc
	<b>Lecturer, Department of Urban and Regional Planning</b>
Institution	Bangladesh University of Engineering and Technology (Oct 2015 - Aug 2017)
Courses taught	GIS and Remote Sensing, Urban Planning Techniques, Site and Area Planning, Presentation and Communication Techniques Studio, Project Evaluation and Management

## ACADEMIC ACHIEVEMENTS

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- **Prime Minister Gold Medal** (2015) from University Grant Commission of Bangladesh.
- **Best Undergrad Thesis Award** (2014-2015).
- **Dean's List Award** for securing 1<sup>st</sup> position in the class.

## PROJECT AND THESIS

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- Completed master's thesis on "**Vehicular Route Modelling for safe evacuation during Tropical Storms and Flooding**"
- Worked as a junior GIS analyst in the "**Preparation of Action Area Plan for Dhaka North City Corporation (DNCC)**" (2016 – 2017)

- Completed undergraduate thesis on “**Modelling and Analyzing Land Use Dynamics: A Case Study of Dhaka City Corporation**”.

#### ACADEMIC WORKS

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Environment Society and Public health	Measuring Spatial Accessibility of Healthcare Facilities during Hurricane Flooding
Spatial Modelling	Agent based wildfire evacuation model for Eagle Mountain City
Geoprocessing with Python	ArcGIS Python Based Rainfall-Runoff Modelling
Advanced Geographical Analysis	Analyzing the spatial pattern of traffic accidents and its relationship with urban characteristics
Transportation Planning Workshop	Assessment of the impact of Shantinagar - Mogbazar flyover on the traffic condition of surrounding area
Project Planning Workshop	Preparation of Terms of References, Financial Proposal and Cost-Benefit Analysis on “Disaster Risk Management Plan for Earthquake in Old Dhaka”

#### PUBLICATIONS AND PRESENTATIONS

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- Kar, A., Cova, T.** (2019, April). **Vehicular Route Modelling for safe evacuation during Tropical Storms and Flooding.** Paper presented in the session titled “*GIScience and Hazards in the era of big data*” at the Annual Meeting of AAGC, 2019 in Washington DC.
- Kar, A., Mashraky, R., Khatun, F., Huq, M. E., Mahmud, S., Islam, I., & Akther, M. S.** (2016). **Prospects of Urban Regeneration in Motijheel Commercial Area of Dhaka City.** *Imperial Journal of Interdisciplinary Research (IJIR), Vol-2, Issue-10*, pg 1435-1444.
- Kar, A. & Mashraky, R.** (2016). **Trends in Pro-Poor Growth and Inequality from the Perspective of Bangladesh.** *Nogor Shoilee, Vol-7*, ISBN-978984-333-9806-2.
- Mahmud, S., Huq, M. E., **Kar, A., Mashraky, R., Khatun, F., Islam, I., & Akther, M. S.** (2014). **Managing Development of Fringe Areas in Dhaka City: " Land Readjustment" as a Technique for Sustainable Future Development Ensuring Environmental and Social Justice.** *International Journal of Undergraduate Research and Creative Activities, 6(2), 5.*

#### EXTRACURRICULAR ACTIVITIES & INTERESTS

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- Worked as **Cultural Secretary** of URP Students Association of BUET (USAB).
- Worked as **Vice President** of Bangladesh Student Association, University of Utah (BSAUU).
- Likes Zumba dancing, painting, hiking & chilling.