

# UMME KULSUM

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Room: 3.318, Green Hall, University of Texas at Dallas

## EDUCATION

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- MSc** Jagannath University, Dhaka Bangladesh Aug, 2020  
Dept. of Geography and Environment  
Thesis: Analysis of Urban Heat Island and Associating Air Quality in Greater Dhaka Using GIS and Remote Sensing Techniques
- BSc** Jagannath University, Dhaka Bangladesh Dec, 2018  
Dept. of Geography and Environment  
Dissertation: Spatial Expansion of Urban Heat Island: A Case Study of Dhaka Metropolitan Region

## HONORS AND AWARDS

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- ICT Fellowship** 2019  
A fellowship given to master's and PhD students doing research in a field related to Information and communication technologies or a related field.

## RESEARCH EXPERIENCE

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- Unnayan Shamannay**, Dhaka, Bangladesh 2021 to 2022  
**Research Officer**
- Data and project management and administration
  - Spatial Analysis and map production
- ARK Foundation**, Dhaka, Bangladesh 2018  
Research and Development Department  
**Intern**
- FGD
  - Data collection through in-depth interview

## PUBLICATION

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### *Journal Publications*

Kulsum, U., Moniruzzaman, M., (2022). Exploring the Relationship of Climate Change and Land Use Dynamics with Satellite Derived Surface Indices and Temperature in Greater Dhaka, Bangladesh. *Journal of Earth System Science*

Kulsum, U., Moniruzzman, M. (2021). Quantifying the Relationship of Vegetation Cover and Air Pollution: A Spatiotemporal Analysis of NDVI and PM2.5 in Greater Dhaka, Bangladesh. *Jagannath University Journal of Science*, 7(2), 54-63.

## **PRESENTATIONS**

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### **Paper Presentation**

Air Quality and Land Use Nexus in Greater Dhaka, International Conference on Earth and Environmental Sciences & Technology for Sustainable Development, ICEEST, 25-27 January 2020

## REFERENCES

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**Dr. Albert Jones**, [Title]  
[Department Name]  
[University Name]  
[Mailing Address]  
Phone: [Phone #]  
Email: [email address]

**Dr. Anne Smith**, [Title]  
[Department Name]  
[Company Name]  
[Mailing Address]  
Phone: [Phone #]  
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