

# Misbah Ul Hoque, Ph.D.

Assistant Professor  
Department of Computer Science  
California State University Northridge (CSUN)

## Education

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**Doctor of Philosophy, Computer Science and Engineering** *August 2019 – December 2025*  
*Louisiana State University, Baton Rouge, USA*

**Master of Science, Computer Science and Engineering** *August 2019 – May 2024*  
*Louisiana State University, Baton Rouge, USA*

**Master of Science in Engineering, Computer Science and Engineering** *January 2015 – September 2017*  
*University of Chittagong, Chittagong, Bangladesh*

**Bachelor of Science in Engineering, Computer Science and Engineering** *March 2007 – January 2013*  
*University of Chittagong, Chittagong, Bangladesh*

## Professional Experience

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Jan 2026 - Present	<b>Assistant Professor</b> , Department of Computer Science, California State University, Northridge
Aug 2019 - Dec 2025	<b>Graduate Assistant</b> , Division of Computer Science and Engineering, Louisiana State University
May 2019 - Aug 2019	<b>Assistant Professor</b> , Dept. of Computer Science and Engineering, Green University of Bangladesh
Feb 2016 - Apr 2019	<b>Senior Lecturer</b> , Dept. of Computer Science and Engineering, Green University of Bangladesh
May 2013 - Jan 2016	<b>Lecturer</b> , Dept. of Computer Science and Engineering, Green University of Bangladesh

## Teaching Experience

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	<b>Responsibilities,</b>	
Teaching Faculty	<ul style="list-style-type: none"><li>• Course instructing in Spring 2026 at CSUN: COMP 482 (Algorithm Design and Analysis), COMP 641 (Fundamentals of Data Science)</li><li>• Course instructed at GUB: Algorithm Design and Development, Microprocessors, Data Structures, Object Oriented Programming (OOP), Discrete Mathematics, and Structured Programming Language.</li></ul>	<i>2013- 2026</i> <i>GUB-CSUN</i>
Teaching Assistant	<b>Responsibilities,</b> <ul style="list-style-type: none"><li>• Course assisted at LSU: Introduction to System Programming, Software System Development, Introduction to Computer Science II for Majors, Comp Organization &amp; Design, Object Oriented Design, Discrete Structures, Big Data Systems &amp; Applications.</li><li>• Prepared lab materials.</li><li>• Conducted lab classes.</li><li>• Taught On-Screen Takeoff (OST) in the lab.</li><li>• Managed course delivery website (Moodle).</li></ul>	<i>2019-2025</i> <i>LSU</i>

## Project Experience

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Graduate Research Assistant	<b>BIM Resilience</b> , funded by the Board of Regent (BoR). <ul style="list-style-type: none"><li>Developed front-end and back-end for BIM Resilience Server (<a href="http://bimresilience.cm.lsu.edu/">http://bimresilience.cm.lsu.edu/</a>).</li><li>Implemented extract-transform-load (ETL) functionalities for Industry Foundation Classes (IFC) files.</li><li>Maintained spatial and relational databases.</li></ul>	2021-2023 LSU
Graduate Research Assistant	<b>RAPID</b> , funded by the National Science Foundation (NSF). <ul style="list-style-type: none"><li>Designed and developed a novel approach for multimodal sentiment analysis.</li><li>Implemented analytical process frameworks for tweeting patterns and public engagement on Twitter data.</li><li>Extracted and utilized 7M tweets and 571K COVID-related tweets for data analysis.</li></ul>	2020-2022 LSU
Learning Coach	<b>BRByte Program</b> , funded by the NSF. <ul style="list-style-type: none"><li>Prepared and designed CS course curriculum for K-12 students.</li><li>Trained and taught middle and high school teachers of the East Baton Rouge Parish School System (EBRPSS).</li><li>Provided technical and research support during the school year.</li></ul>	Summer 2020-2023 LSU
Graduate Research Assistant	<b>Flood Safe Home</b> , LaHouse Research and Education Center, LSU, funded by the NSF. <ul style="list-style-type: none"><li>Implemented ETL functionalities for flood risk mitigation sandbox (JavaScript, GEEs), and visualization (GoogleMap).</li></ul>	Summer 2024

## Publications

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### JOURNALS

- Osama Al-Maabreh, **Misbah Ul Hoque**, Yongcheol Lee, Kisung Lee, and Pedram Ghannad. 2023. Revealing inherent rules and validation frameworks for evaluating BIM data regarding disaster-and resilience-related regulations. In *Computing in Civil Engineering 2023*, pages 1063–1071.
- Misbah Ul Hoque**, Kisung Lee, Jessica L. Beyer, Sara R. Curran, Katie S. Gonser, Nina S. N. Lam, Volodymyr V. Mihunov, and Kejin Wang. 2022. Analyzing tweeting patterns and public engagement on Twitter during the recognition period of the COVID-19 pandemic: A study of two U.S. states. *IEEE Access*, 10:72879–72894.
- Md. Mahin, Md. Jahidul Islam, Ayesha Khatun, Sumaiya Kabir, Biplab Chandra Debnath, and **Misbah Ul Hoque**. 2017. An approach to evaluate the effect of different sub-categories of data within the minority class on the classifiers while mining imbalanced data. *GUB Journal of Science and Engineering*, Volume 4, Issue 1, December 2017.

### CONFERENCES

- Misbah Ul Hoque** and Kisung Lee. SentiGAT: Enhancing Multimodal Sentiment Analysis via Graph Attention Network-Based Feature Fusion and Alignment, 2025 IEEE 7th International Conference on Cognitive Machine Intelligence (CogMI), Pittsburgh, PA, USA, 2025, pp. 176-186, doi: 10.1109/CogMI67134.2025.00028.
- T. M. Shahriar Sazzad, K. M. Tanzibul Ahmmed, **Misbah Ul Hoque**, and Mahmuda Rahman. 2019. Development of automated brain tumor identification using MRI images. In *2019 International Conference on Electrical, Computer and Communication Engineering (ECCE)*, pages 1–4.
- Misbah Ul Hoque**, T. M. Shahriar Sazzad, A.K.M. Ashek Farabi, Ismail Hosen, and Mursheda Akter Somi. 2019. An automated approach to detect breast cancer tissue using ultrasound images. In *2019 1st International Conference on Advances in Science, Engineering and Robotics Technology (ICASERT)*, pages 1–4.

## Awards

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- 2026 **Faculty Startup Funding**, California State University Northridge
- 2019-2025 **Graduate Assistantship**, Louisiana State University
- 2023 **Graduate Student Association (GSA) Travel Award**, Louisiana State University
- 2018-2019 **GUB Annual Research Publication and Grants**, Green University of Bangladesh (GUB)
- 2017 **Prime Minister Gold Medal**, University Grant Commission (UGC) of Bangladesh
- 2011 **Competitive Programming Award (Ranked: 1<sup>st</sup>)**, Prothom-Alo BGC Trust University IUPC
- 2011 **Competitive Programming Award (Ranked: 4<sup>th</sup>)**, Chittagong University IUPC
- 2008-2011 **Competitive Programming Award (Honorable Mention)**, ACM ICPC Asia-Dhaka Site