

Md Masudur Rahman

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RESEARCH INTERESTS

- Artificial Intelligence, Machine Learning, Reinforcement Learning, and Robotics.

EDUCATION **Purdue University**, West Lafayette, IN, USA
Ph.D., Computer Science, Started: January 2019
Advisor: Yexiang Xue

University of Virginia, Charlottesville, VA, USA
M.S., Computer Science, December 2018
Advisor: Baishakhi Ray

- CGPA: 3.96

Bangladesh University of Engineering and Technology (BUET),
Dhaka, Bangladesh

B.Sc., Computer Science and Engineering, February 2013
• CGPA: 3.84 (*Ranked 6th out of 142 students in class*)

PUBLICATIONS

1. *Regularizing Sequential Prediction with Logic Constraints*. **Md M. Rahman**, R. M. Voyles, J. Wachs, and Y. Xue. 2019. Technical Report 2019, 8 pages.
2. *Morality in Decision-Making: A Causal Approach*. **Md M. Rahman**. Accepted for oral presentation at RLDM Workshop on Moral Decision Making (MoDeM) 2019. [[MoDeM Link](#)][[RLDM Link](#)].
3. *Transferring Dexterous Surgical Skill Knowledge between Robots for Semi-autonomous Teleoperation*. **Md M. Rahman***, N. Sanchez-Tamayo*, G. Gonzalez, M. Agarwal, V. Aggarwal, R. M. Voyles, Y. Xue, and J. Wachs [* equal authorship]. 2019. Ro-Man 2019, 6 pages.
4. *DESK: A Robotic Activity Dataset for Dexterous Surgical Skills Transfer to Medical Robots*. N. Madapana*, **Md M. Rahman***, N. Sanchez-Tamayo*, M. V. Balakuntala, G. Gonzalez, J. P. Bindu, L. N. V. Venkatesh, X. Zhang, J. B. Noguera, T. Low, R. Voyles, Y. Xue, J. Wachs. [* equal authorship]. 2019. IROS 2019, 8 pages. [[PDF](#)]

5. *Toward Optimal Selection of Information Retrieval Models for Software Engineering Tasks.* **Md Masudur Rahman**, Saikat Chakraborty, Gail Kaiser, and Baishakhi Ray. SCAM 2019, 12 pages. [PDF]
6. *Recommending GitHub Projects for Developer Onboarding.* Chao Liu, Dan Yang, Xiaohong Zhang, Baishakhi Ray, **Md Masudur Rahman**. IEEE Access Journal 2018, 13 pages. [PDF]
7. *Evaluating How Developers Use General-Purpose Web-Search for Code Retrieval.* **Md M. Rahman**, J. Barson, S.y Paul, J. Kayan, F. A. Lois, S. F. Quezada, C. Parnin, K. T. Stolee, B. Ray. MSR 2018, 11 pages, 2018. [PDF] [Link]
8. *Which Similarity Metric to Use for Software Documents? A study on Information Retrieval based Software Engineering Tasks.* **Md M. Rahman**, S. Chakraborty, B. Ray. ICSE '18 Companion, 2 pages, 2018. [Poster] [Link]
9. *Finding Similar Projects in GitHub using Word2Vec and WMD.* **Md M. Rahman**. Workshop on the Naturalness of Software (NL+SE 2016) at FSE 2016. [Slides]
10. *Topic Model based Privacy Protection in Personalized Web Search.* W. Ahmad, **Md M. Rahman**, H. Wang. SIGIR'2016, 4 pages, 2016. [Link]

RESEARCH EXPERIENCE	<p>Research Assistant, Computer Science, Purdue University, Spring 2019 - current</p> <p>Research Assistant, Computer Science, UVA, Summer 2016 - Summer 2018</p>
TEACHING EXPERIENCE	<p>Teaching Assistant, Computer Science, UVA, Fall 2015 - Spring 2017, Fall 2018</p> <p>Teaching Instructor Spring 2013 to Summer 2015 <i>Department of Computer Science and Engineering, BRAC University</i></p>
WORK EXPERIENCE	<ul style="list-style-type: none"> • Lecturer February 2013 - August 2015 Department of Computer Science and Engineering Brac University, Dhaka, Bangladesh

AWARDS &
HONORS

- Student Travel Awards: ICSE/MSR 2018, NL4SE@FSE 2016, SIGIR 2016
- Enrolled in Dean List for academic excellence in B.Sc for three academic years (2008-2013).