

# Mir Tafseer Nayeem

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## Education

- **M.Sc. in Computer Science** *September 2015 – September 2017*  
University of Lethbridge (UofL), Alberta, Canada.  
**CGPA:** 4.00/4.00  
**Thesis title:** “Methods of Sentence Extraction, Abstraction and Ordering for Automatic Text Summarization”  
**Supervisor:** Dr. Yllias Chali, Professor, CS Department.  
**Committee members:** Dr. Wendy Osborn, Dr. John Anvik
- **B.Sc. in Computer Science and IT (CIT)** *January 2008 - October 2011*  
Islamic University of Technology (IUT), Gazipur, Bangladesh.  
**CGPA:** 3.92/4.00  
**Thesis title:** “Designing a Probabilistic Path Selection Model for Vehicular Networks”  
**Supervisor:** Dr. Muhammad Mahbub Alam, Professor & Head, CSE Department.

## Selected Publications

Full publication list can be accessed from the [Google Scholar](#).

- [1] Tanvir Ahmed Fuad\*, **Mir Tafseer Nayeem\***, Asif Mahmud, and Yllias Chali, “Neural Sentence Fusion for Diversity Driven Abstractive Multi-Document Summarization”, **Computer Speech & Language**, Elsevier 58 (2019): 216-230. [**\*Equal Contribution**]
- [2] **Mir Tafseer Nayeem**, Tanvir Ahmed Fuad, Yllias Chali, “Neural Diverse Abstractive Sentence Compression Generation”, In Proceedings of the 41st European Conference on Information Retrieval (**ECIR 2019**), Cologne, Germany.
- [3] **Mir Tafseer Nayeem**, Tanvir Ahmed Fuad, Yllias Chali, “Abstractive Unsupervised Multi-Document Summarization using Paraphrastic Sentence Fusion”, In Proceedings of the 27th International Conference on Computational Linguistics (**COLING 2018**), Santa Fe, New Mexico, USA. [**Oral Presentation**] [[Best Paper Nomination & Area Chair Favorite](#)]

- [4] **Mir Tafseer Nayeem**, Yllias Chali, “*Paraphrastic Fusion for Abstractive Multi-Sentence Compression Generation*”, In Proceedings of the 26th ACM International Conference on Information and Knowledge Management (**CIKM 2017**), Singapore.
- [5] Yllias Chali, Moin Mahmud Tanvee, **Mir Tafseer Nayeem**, “*Towards Abstractive Multi-Document Summarization Using Submodular Function-Based Framework, Sentence Compression and Merging*”, In Proceedings of the 8th International Joint Conference on Natural Language Processing (**IJCNLP 2017**), Taipei, Taiwan.
- [6] **Mir Tafseer Nayeem**, Yllias Chali, “*Extract with Order for Coherent Multi-Document Summarization*”, In Proceedings of TextGraphs-11: The Workshop on Graph-based Methods for Natural Language Processing (**ACL 2017 Workshop**), Vancouver, Canada. [**Oral Presentation**]
- [7] **Mir Tafseer Nayeem**, Md Mamunur Rashid Akand, Nazmus Sakib, and Md. Wasi Ul Kabir, “*Design of a Human Interaction Proof (HIP) using Human Cognition in Contextual Natural Conversation*”, In Proceedings of the IEEE 13th International Conference on Cognitive Informatics and Cognitive Computing (**IEEE ICCI\*CC’14**), London, UK. [**Oral Presentation**]
- [8] **Mir Tafseer Nayeem**, Md Mamunur Rashid Akand, Nazmus Sakib, and Md. Wasi Ul Kabir, “*Human Cognition in Automated Turing Test Design*”, International Journal of Software Science and Computational Intelligence (IJSSCI) 6.4 (2014): 1-19.
- [9] **Mir Tafseer Nayeem**, Md. Saddam Hossain Mukta, Samsuddin Ahmed, Md. Mahbubur Rahman, “*Use of Human Cognition in HIP Design Via EmotIcons to Defend BOT Attacks*”, In Proceedings of the IEEE 15th International Conference on Computational Science and Engineering (**IEEE CSE 2012**), Nicosia, Cyprus. [**Oral Presentation**]

## Major Honors and Awards

- **Best paper nomination** at COLING 2018.
- “**Area Chair Favorite**” paper at COLING 2018.
- **SIGIR** Student Travel Grant [2017]
- School of Graduate Studies (**S.G.S**) Research Dissemination Travel Award [2017]
- Graduate Student’s Association (**GSA**) Travel Award [2017]
- School of Graduate Studies (**S.G.S**) Dean’s Scholarship, UofL [2015-2017]
- School of Graduate Studies (**S.G.S**) International Tuition Award, UofL [2015-2017]
- Graduate Assistantship (**G.A.**), UofL [2015-2017]
- **IUT-OIC** Full Free Scholarship. [International, 2008-2011]
- Received First Class with Honors in Bachelor of Science (B.Sc) in Computer Science and Information Technology (CIT) [Institutional, 2011]
- HSC Talent Pool Scholarship  
Board of Intermediate and Secondary Education, Comilla, August 2007.
- SSC Talent Pool Scholarship  
Board of Intermediate and Secondary Education, Comilla, June 2005.

## Research Experience

For more details of the current projects, please visit the [project](#) section.

- **Research Assistant** *September 2015 – September 2017*
  - Coherent Multi-Document Summarization.
  - Abstractive Sentence Fusion Generation.
  - Neural **Seq2Seq** Paraphrastic Compression model.
  - Reader Level Summary Generation.
  - App Review Dataset from Google Play Store.
  - Sentiment Analysis of App Reviews.
  - Bug and new feature identification for the developers and the users.
  
- **Faculty Research work** *February 2012 – August 2015*
  - Opinion Mining and Summarization of App Reviews.
  - Ranking Hotels based on User Reviews.
  - Opinion mining from Bangla Micro Blog posts.
  - Human Cognition in Contextual Natural Conversation.
  - Use of Human Cognition in HIP Design using Emoticons and Conversations.
  
- **Undergraduate Thesis work** *July 2010 – October 2011*
  - **EFD: A Probabilistic Dynamic Path Selection Model for Vehicular Networks**
    - Analyzed and compared the performance of different routing algorithms for Vehicular Ad hoc Networks (VANETs).
    - Developed a probabilistic link delay model for VANETs.

## Teaching Experience

**Faculty Member**, CSE Department, *October 2012 – Current*  
Ahsanullah University of Science and Technology (AUST)  
Dhaka, Bangladesh.

**Courses Taught:** Compiler Design, Theory of Formal Languages & Automata, Artificial Intelligence, Database, Data Structure.

Bangladesh University of Business and Technology (BUBT) *Feb 2012– Sept 2012*  
Dhaka, Bangladesh.

**Courses Taught:** C Programming, Data Structure, Numerical Methods.

**Teaching Assistant**, Computer Science Department *Sept 2015 – Sept 2017*  
University of Lethbridge (UofL)  
Alberta, Canada.

**Courses TAed:** Fundamental of Programming I & II, Practical Software Development, Artificial Intelligence.

## Related Experience

**Organizer and Host:** Intel Nervana AI Academy - Workshop

*October 20, 2017*

**Program Committee Member:** [IEEE SysCon 2015](#)

**Industrial Trainee** at Systech Digital Ltd. Bangladesh

*August 2010 - October 2010*

Collaborated in a team of 4 to develop an appointment management software using PHP framework CodeIgniter and MySQL.

## Other Experience

- Convener, Project Showcasing, AUST CSE WEEK 2018
- Organizing committee member in the AUST CSE Fest 2013 and 2014, held at AUST.
- Organizing committee member in the BUBT CSE FIESTA 2012, held at BUBT.
- Organizing committee member in the IUT ICT Fest 2011, held at IUT.

## Course Project Works

- **Graduate Course Project** *September 2015 – September 2017*
  - User Review Analysis of Google Play Store Apps.
  - Modeling Class Scheduling Using Linear Programming.
  - Design of 8-bit ALU & CPU on Xilinx using Verilog HDL.

For more details, please visit the [course project](#) section.

- **Undergraduate Course Project** *January 2008 – October 2011*
  - Developed a Parts of Speech tagger and Stemmer for Bangla Language (*Python*).
  - Developed a multi-module system that recognizes syntactically correct affirmative and negative sentences within a document (*Python*).
  - Built a user centered model “**Virtual Shop Guide**” for Online Cloth Store with dynamic fictitious graphic characters.
  - A multi-player Game with advanced graphics like fog, lighting, particle system, reflections and collision detection with improved speed and appearance (*OpenGL, C++*).
  - A multi-player & multi-level mobile game using NetBeans Game Builder (*J2ME*).
  - **JDM:** A Multithreaded Java Download Manager with real life features (*JAVA*).
  - Online Cloth Store with advanced features (*ASP.net, JavaScript and AJAX*).
  - Swap or Exchange Website integrated with *paypal.com* (*PHP, MySQL*).
  - Personal Scheduler and Appointment Manager (*Code Igniter, MySQL*).
  - **Case Study:** Implementing and documenting a Web Based Music CD Store using UML.
  - Analysis and Design of Routine Management System. (*Visual Basic, MS Access*).
  - Cafeteria Management System Software (*Visual Basic, MS Access*).
  - Displaying Bangla Characters using Segment Displays (*Software Used: DSCH*).
  - Hall Management System Software (*Language: Turbo C with excellent GUI*).

## References

*Available on request.*

*[CV updated on August 6, 2019]*