Mir Tafseer Nayeem

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Dhaka, Bangladesh

Education

- **M.Sc. in Computer Science**   *September 2015 – November 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), Dhaka, 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] **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.

[2] 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***]

[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*
    - 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 / Reviewer: ICCIT2020, 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 project section.

- **Undergraduate Course Project**   *January 2008 – October 2011*
  - 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 November 01, 2020]