

Tazin Afrin, PhD

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EDUCATION	<p>Ph.D. in Computer Science, University of Pittsburgh Graduated: April 2022</p> <p>Thesis: Desirable Revisions of Evidence and Reasoning for Argumentative Writing</p> <p>Advisor: Dr. Diane Litman, Professor, Department of Computer Science, UPitt</p> <p>Lab Website: https://petal-cs-pitt.github.io/</p> <p>Selected Courses: Computational Linguistics (Spring2018, Carnegie Mellon University(CMU)), Neural Networks for Natural Language Processing (Fall2017, CMU), Natural Language Processing (Spring2017), Human Computer Interaction (Fall2016), Machine Learning (Spring2016), Foundations of Artificial Intelligence (Fall2015), Distributed Systems(Fall2016), Compiler Design (Spring 2016)</p> <p>CGPA: 3.62</p>
	<p>M.Sc. in Computer Science, West Virginia University Graduated: July 2015</p> <p>Thesis: The Longest Common Subsequence via Generalized Suffix Trees</p> <p>Advisor: Dr. Donald Adjeroh, Professor, LCSEE, WVU</p> <p>CGPA: 4.00</p>
	<p>B.Sc. in Computer Science and Engineering Graduated: April 2012</p> <p>Bangladesh University of Engineering & Technology (BUET), Dhaka, Bangladesh</p> <p>Thesis: A Study On Pairwise Compatibility Graph</p> <p>Advisor: Dr. Md. Saidur Rahman, Professor, CSE, BUET</p> <p>CGPA: 3.63</p>
SKILLS	<p>Advanced/Proficient in: Python & Experienced in: C/C++, Java, Javascript,</p> <p>Frameworks and Tools: Git, NLTK, Scikit-learn, NumPy, SciPy, Keras, HuggingFace, PyTorch, SPSS</p> <p>Other: HTML/CSS, AWS, L^AT_EX, SQL, Android, Assembly, Matlab, RESTful API</p>
EXPERIENCE	<p>AI Engineer at Educational Testing Services August 2022 - Current</p> <ul style="list-style-type: none">• Developed machine learning models for automated scoring capabilities using Python, AWS, NLP <p>Graduate Research Assistant at University of Pittsburgh August 2017 - April 2022</p> <ul style="list-style-type: none">• Developed the ArgRewrite revision assistant tool: http://argrewrite.cs.pitt.edu using Restful API• Developed web-based interface in the front-end• Conducted user study and data collection <p>NLP Intern at Philips Lighting Research, Cambridge, MA June 2018 - August 2018</p> <ul style="list-style-type: none">• Built a model to automatically create structured query language from natural language query for conversational AI using Python, Keras, AWS. <p>Teaching Assistant at University of Pittsburgh August 2015 - July 2017</p> <p>Teaching Assistant at West Virginia University August 2013 - May 2015</p>
PUBLICATION	<p>Notable Conference Publications:</p> <ul style="list-style-type: none">• Tazin Afrin, Diane Litman, “Predicting Desirable Revisions of Evidence and Reasoning in Argumentative Writing” In Proceedings of the 17th Conference of the European Chapter of the Association for Computational Linguistics, EACL Findings '23, Dubrovnik, Croatia. Association for Computational Linguistics.• Tazin Afrin, Omid Kashefi, Christopher Olshefski, Diane Litman, Rebecca Hwa, and Amanda Godley, “Effective Interfaces for Student-Driven Revision Sessions for Argumentative Writing” In CHI Conference on Human Factors in Computing Systems (CHI '21), Online, May 8–13, 2021, Yokohama, Japan.

- **Tazin Afrin**, Elaine Wang, Diane Litman, Lindsay Clare Matsumara, and Richard Correnti, “Annotation and Classification of Evidence and Reasoning Revisions in Argumentative Writing” Proceedings of 15th Workshop on Innovative Use of NLP for Building Educational Applications, July, 2020, Virtual.
- **Tazin Afrin**, Diane Litman, “Identifying Editor Roles in Argumentative Writing from Student Revision Histories” Proceedings of the 20th International Conference on Artificial Intelligence in Education (AIED), June 25th - 29th 2019, Chicago, Illinois, USA.
- **Tazin Afrin**, Diane Litman, “Annotation and Classification of Sentence-level Revision Improvement” The 13th Workshop on Innovative Use of NLP for Building Educational Applications, NAACL-HLT 2018.

Notable Journal Publications:

- Omid Kashefi, **Tazin Afrin**, Meghan Dale, Christopher Olshefski, Amanda Godley, Diane Litman, Rebecca Hwa, “ArgRewrite V.2: an Annotated Argumentative Revisions Corpus”, Language Resources and Evaluation, Springer, Online.
- Richard Beal, **Tazin Afrin**, Aliya Farheen, Don Adjeroh, “A new algorithm for ‘the LCS problem’ with application in compressing genome resequencing data.” IEEE International Conference on Bioinformatics and Biomedicine (BIBM), pp.69-74, 2015.
- Full list of publications: <http://people.cs.pitt.edu/~tazinafrin/publications.html>

NOTABLE ACADEMIC PROJECTS

- Question Answering from Text/Paragraph, SQuAD dataset, **Python, PyTorch, AWS**
- Fake News Challenge : Stance Detection using **Python**
- MINI-GOOGLE search engine using **C** and **Hadoop**
- Compiler for MINI-JAVA using **C** using **Lex & YACC**
- Public Speech Delivery and Pronunciation Feedback Using Vibration Interfaces, **Android, Python**
- Image Viewer and Editor (zoom, contrast, flip, crop) using **Java, Javascript**
- Minesweeper Game, Graphics Mega Structure Modeling using **C, OpenGL**

ACTIVITIES & AWARDS

- Reviewer: AIED 2019; BEA 2019–2023; ACL 2019
- Vice-President, Computer Science Graduate Student Organization May 2017 - April 2018
- Pitt Ambassador at Grace Hopper Conference 2017
- Student Scholarship Award, LearnLab Summer School, Carnegie Mellon University 2017
- **Dean’s Honor List** (Senior year of Undergraduate Study) 2011
- **Award from Ministry of Education, Government of Bangladesh**
- Excellence in Higher Secondary and Secondary School Certificate Examination, 2004-2011