

Md Rizwan Parvez

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<https://rizwan09.github.io/>

Research Interests

- Computational approaches to natural and programming language processing.
- Tractable machine learning methods for complex and big data.
- Language processing with auxiliary supervision and world knowledge.

Education

Ph.D. in Computer Science University of California, Los Angeles (UCLA) CGPA: 3.73 on a scale of 4.00 <i>Advisor:</i> Prof. Kai-Wei Chang	09.2017 - 07.2022 (expected)
B.Sc. in Computer Science and Engineering Bangladesh University of Engineering and Technology (BUET) CGPA: 3.80 on a scale of 4.00 Position: Ranked 15 th in a class of 134 students	05.2010 - 09.2015

Experience

Google Research, Kirkland, WA Research Intern, Manager: Bin Zhang	06.2021 - 09.2021
Facebook AI Research (FAIR), Seattle, WA Research Intern, Manager: Scott Wen-tau Yih	06.2020 - 09.2020
Salesforce Research, Palo Alto, CA Research Intern, Manager: Bryan McCann	06.2019 - 09.2019
Microsoft AI & Research, Redmond, WA Research Intern, Manager: Paul Mineiro	06.2018 - 09.2018
United International University (UIU), Bangladesh Lecturer, Computer Science and Engineering	10.2015 - 08.2016

Conference Publications [[Google Scholar](#)]

1. **Parvez, R. M.**, Ahmad, W. U. , Chakraborty, S., Ray, B., & Chang, K. W. (2021). Retrieval Augmented Code Generation and Summarization. In Findings of EMNLP.
2. **Parvez, R. M.**, & Chang, K. W. (2021). Evaluating the Values of Sources in Transfer Learning. In Proceedings of NAACL.
3. **Parvez, R. M.**, Bolukbasi, T, Chang, K. W., & Saligrama, V. (2019). Robust Text Classifier on Test-Time Budgets. In Proceedings of EMNLP.
4. **Parvez, R. M.**, Chakraborty, S., Ray, B., & Chang, K. W. (2018). Building Language Models for Text with Named Entities. In Proceedings of ACL.

5. **Parvez, R. M.**, Mosharraf, T., & Ali, M. E. (2016). A novel approach to identify spatio-temporal crime pattern in Dhaka City. In Proceedings of ICTD.
6. Preum, S. M., **Parvez, R. M.**, & Chang, K. W. & J Stankovic, J. (2018). A corpus of drug usage guidelines annotated with type of advice. In Proceedings of LREC.

Thesis

1. Language Processing with Auxiliary Supervision and World Knowledge (Ph.D expected)
2. An Efficient Approach of Computing Voronoi Diagrams in a Large Graph (Undergraduate)

Preprints

1. **Parvez, R. M.**, Gupta, R., Zhang, B., Chang, K. W. & Rastogi, A. (2021). A Template Retrieval Approach for Generating Diverse Dialogue Responses: Possibilities and Limitations.

Workshops/Symposiums

1. **Parvez, R. M.**, Bolukbasi, T, Chang, K. W., & Saligrama, V. (2019). Robust Text Classifier on Test-Time Budgets. In West Coast NLP Summit (WeCNLP), Facebook, Menlo Park, CA, USA.
2. **Parvez, R. M.**, Chakraborty, S., Ray, B., & Chang, K. W. (2018). Building Language Models for Text with Named Entities. In Southern California (SoCal) NLP symposium, University of California, Irvine, CA, USA.
3. **Parvez, R. M.**, Bolukbasi, T, Chang, K. W., & Saligrama, V. (2017). A Modular Template Matching Approach for VQA. In Mid-Atlantic Student Colloquium on Speech, Language and Learning (MASC-SLL), Washington DC, USA. [oral, acceptance rate < 20%]
4. Dev, H., **Parvez, R. M.**, Bhuiyan, M. M., Mosharraf, T., Khan, T. A., Haque, F., Mamun, A. A., Chowdhury, F. A., Hossain, M. S. S., Morshed, M., & Islam, A. A. A. (2014). DhakaSim: A Tool for Simulating Traffic Mobility in Dhaka City. In Workshop on Mobile Computing and Human Computer Interaction (MoHCI). **Best Demo Award**

Selected Awards

- Student travel grants:
 - ACL 2018
 - West Coast NLP Summit (WeCNLP) 2019
- Best paper/demo/poster awards
 - Among top-6 undergrad thesis posters, BUET
 - **Best Demo Award**, Bangladesh Inter-University System Design and Development 2015
 - **Best Demo Award**, Workshop on Mobile Computing and Human Computer Interaction 2014
 - Second Runner-Up Award, Bangladesh National Innovative Projects on Improving Road Safety 2014
- Fellowships/scholarship awards:
 - UCLA graduate fellowship 2017
 - Professor M. A. Nasser Memorial Scholarship, BUET 2014

- Dean’s List Award, BUET 2013-2015
- University Merit Scholarship, BUET 2014-2015
- Merit Scholarships, Rajshahi Education Board, Bangladesh 2007, 2009

Teaching Experience

Teaching Fellow, CSM146: Introduction to Machine Learning, UCLA

- Fall 2020, enrollment ≈ 40
- Winter 2020, enrollment ≈ 40
- Fall 2019, enrollment ≈ 40
- Fall 2018, enrollment ≈ 40

Teaching Fellow, CS31: Introduction to Computer Science I, UCLA

- Spring 2020, enrollment ≈ 30

Teaching Associate, CS33: Computer Organization, UCLA

- Spring 2020, enrollment ≈ 40
- Winter 2019, enrollment ≈ 40

Teaching Assistant, CS269: Natural Language Processing, UCLA

- Fall 2017, enrollment ≈ 80

Teaching Assistant, Natural Language Processing, U.Va

- Spring 2017, enrollment ≈ 50

Teaching Assistant, Principles of Software Design, U.Va

- Fall 2016, enrollment ≈ 50

Instructor, United International University (UIU), Bangladesh

- Numerical Analysis, Spring 2016, enrollment ≈ 50
- C Programming Language, Spring 2016, enrollment ≈ 50
- Digital Logic Design, Winter 2015, enrollment ≈ 50

Talks

- Language Processing with Auxiliary Supervision and World Knowledge, AWS AI, Sep 2021
- Fast and Robust Text Classification, Sixth International Conference on Networking, Systems and Security (NSysS), Dec 2019

Professional Activities

Program Committee/Reviewer

- 2022: ICLR (expected)
- 2019: NAACL
- 2018: Southern California (SoCal) NLP symposium

References

Dr. Kai-Wei Chang

Assistant Professor

Department of Computer Science

University of California, Los Angeles

Email: kwchang@cs.ucla.edu

Dr. Baishakhi Ray

Associate Professor

Department of Computer Science

Columbia University

Email: rayb@cs.columbia.edu