

Husnain Raza

Lahore, Pakistan

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Researchgate: researchgate.net/profile/Husnain-Raza

LinkedIn: Husnain-raza

Blog: mythicallusions.blogspot.com/

Objective:

An enthusiastic, flexible and fast-learning person with growing research orientation towards the discovery of language processing techniques and their applicability while working as an English language teacher. In Particular, I enjoy finding ways for collecting, processing and analysing the text from numerous dimensions.

Academic Qualification:

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| • Ph.D. Foreign Languages and Literatures
University of Verona, Italy
https://www.dlts.univr.it/ | October, 2021–Present |
| • M.S Applied Linguistics
FAST-National University of Computer and Emerging Sciences, Lahore (Pakistan)
http://nu.edu.pk/ | September, 2015–July, 2017 |
| • M.A English Linguistics and Literature
National University of Modern Languages, Islamabad | September, 2013–July, 2015 |
| • Bachelors of Arts
Punjab University, Lahore (Pakistan) | September, 2011–August, 2013 |

Professional Experience:

- | | |
|---|-------------------------------------|
| • English Language Lab Instructor and Coordinator
FAST- National University of Computer and Emerging Sciences, Lahore (Pakistan)
http://nu.edu.pk/ | August, 2016–October, 2021 |
| • English Instructor
FAST- National University of Computer and Emerging Sciences, Lahore (Pakistan)
http://nu.edu.pk/ | August, 2016–October, 2021 |
| • Visiting English Lecturer
University of Central Punjab, Lahore (Pakistan)
http://ucp.edu.pk/ | September, 2020–March 2021 |
| • Visiting English Lecturer
Punjab University College of Information Technology
https://pucit.edu.pk/ | February, 2020–July, 2020 |
| • Computer Assisted Learning Lecturer
Lahore Institute of Future Education (LIFE), Lahore (Pakistan)
http://life.edu.pk/ | April, 2018–October, 2019 |
| • Monitoring Officer
Ernst & Young Chartered Accountants, Lahore.
http://www.ey.com/PK/en/Home | September, 2015–August, 2017 |
| • Teacher Assistant
English Access Micro Scholarship Program, Hope Foundation, Kasur (Pakistan)
http://www.hope-pakistan.org (Not active) | June, 2014–June, 2016 |

Internships:

- | | |
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| • Back-End Programming Intern
Social Square Pvt Ltd
https://www.socialsquare.pk (Not active) | December, 2018–January, 2019 |
| • Research Assistant
Rabtt, Lahore. | April, 2016–August, 2016 |
| • Front Desk Officer
FAST- National University of Computer and Emerging Sciences, Lahore (Pakistan)
http://nu.edu.pk/ | June, 2016–August, 2016 |

Workshops Conducted:

- Workshop at English Language Expo 2020 under Regional English Language Office's Scholarship
- One Day Workshop on using "*SPSS for Quantitative Research*"
- One Day Workshop on "*Introduction to Syntax and Syntactic Theories*"

Training Session Conducted:

- Conducting *Seven Days Training for Teaching English* in the *Language Lab*.
- Conducted *Five Days Training for Teaching English* in the *Language Lab*.

Technical Skills:

Programming	Corpus Tools	Basic Tools	Research Tools
- Python (Good) <ul style="list-style-type: none">• NLP• Django• ML (Sequenced Neural Networks)	- AntConc (Good) <ul style="list-style-type: none">- MAT (Good)- UCREL (Good)- Lexical Tutor (Basic)- CLAWS Tagger (Basic)- Lancbox (Good)	- MS-Word (Good) <ul style="list-style-type: none">- MS-Excel (Good)- MS-PowerPoint (Good)	- SPSS (Good) <ul style="list-style-type: none">- LaTeX (Basic)- Jamovi (Basic)
- C++ (Basic)			
- PHP (Basic)			

M.S Thesis:

- Developing a Bilingual Concordancer for Enhancing Academic Vocabulary of Undergraduate Students in Pakistan

Research Interests:

- Computational Linguistics, Corpus Linguistics, Field Work, Text Analysis, Computer Assisted Language Learning (CALL).

Research Paper Published:

1. Naseem, M., Sarfraz, S., Abbas, A., Raza, H., (2019). *Determining the Effectiveness of the Developed Prototype that Translates Pakistan Sign Language into English Text and Speech*. Vol. 6(1), pp. 263-275, August, 2020. © www.premierpublishers.org. ISSN: 2401-093

Research Paper under Progress:

1. Raza, H., (2021). *Entry for Dictionnaire Étymologique Roman (DÉRom)*.
2. Raza, H., (2021). *PAKAV-Tool for Enhancing Academic Vocabulary of English Language Learners: A Prototype Development*
3. Raza, H., Naveed, Z., (2021). *Effectiveness of PAKAV for Enhancing Academic Vocabulary in EFL Context: A Corpus Based Study*

Funding/Grants:

1. Received Funded PhD Position at The University of Verona, Italy.
2. Received sponsorship for attending English Language Expo to Conduct Workshop from RELO-U.S State Department
3. Received scholarship for AE-Teacher Summer Program from RELO-U.S State Department
4. Received sponsorship and funding to attend Massive Online Open Course (MOOC) for ESP from RELO-U.S State Department

Conference Abstracts Published:

1. Raza, H., Alam, M., Naveed, Z., Naseem, M., (2020). *Developing Pakistani Sign Language to Written Text System: A Prototype Development*. 1st National Conference on Linguistic Challenges in Regional Integration and Globalization (CLRIG'20).
2. Raza, H., Alam, M., Naveed, Z., (2020). *Urdu Speech Recognition based on Artificial Neural Network*. 1st National Conference on Linguistic Challenges in Regional Integration and Globalization (CLRIG'20).
3. Raza, H., Alam, M., Naveed, Z., Shafiq, M., (2020). *Relationship between Performance and Emotional Intelligence on Listening English Test of Undergraduate Students in Pakistan*. 1st National Conference on Linguistic Challenges in Regional Integration and Globalization (CLRIG'20).
4. Alam, M., Raza, H., Farooq, A., (2020). *Language Mapping of Pakistan: A Prototype Development*. 1st National Conference on Linguistic Challenges in Regional Integration and Globalization (CLRIG'20).
5. Alam, M., Raza, H., Farooq, A., (2020). *Machine Learning based Urdu Sentence Splitter: A Prototype Development*. 1st National Conference on Linguistic Challenges in Regional Integration and Globalization (CLRIG'20).
6. Alam, M., Raza, H., Farooq, A., (2020). *Teachers' and Learners' Perceptions on the use of Linguistic Landscape for the Melioration of Pragmatic Competence at Undergraduate Level*. 1st National Conference on Linguistic Challenges in Regional Integration and Globalization (CLRIG'20).
7. Raza, H., Naveed, Z., Alam, M., (2019). *Neural Networks Model to Develop Urdu Grammatical Error Corrector: A Prototype Study*. 5th International Conference of the Linguistic Association of Pakistan 2019.
8. Raza, H., Rasool, A., (2019). *Using KNN Algorithm for Kalasha Spelling Correction: A Prototype Development*. 5th International Conference of the Linguistic Association of Pakistan 2019.
9. Raza, H., Naveed, Z., (2018). *Exploring Verbal Aggression in News Articles Using USAS: A Corpus Based Study*. International Conference on English Language and Linguistics (ICELL 2019).
10. Alam, M., Raza, H., Farooq, A., (2018). *Diachronic Shift: A Study of Number Inflections in Kalasha Language*. International Conference on English Language and Linguistics (ICELL 2019).
11. Raza, H., Alam, M., Naseem, M., (2018). *Analyzing Semantic Change through Semantic Mapping of "terrorist" in*

Pakistani Newspaper Articles from Afghan and Iraq Wars. International Conference on English Language and Linguistics (ICELL 2019).

12. Naseem, M., Waseem, Nida., Raza, H., Alam, M., (2018). *Women Objectification in Pakistani Television Advertisements: A Critical Discourse Analysis*. National Conference on TESOL, Linguistics and Literature (CTLL 2019).
13. Raza, H., Alam, M., Farooq, A., Naveed, Z., Naseem, M., (2018). *Analyzing Semantic Change through Semantic Mapping of "Power" in Pakistani Newspaper Articles from Afghan and Iraq Wars*. National Conference on TESOL, Linguistics and Literature (CTLL 2019).
14. Naveed, Z., Shah, K., Raza, H., (2018). *Portrayal of Women in "The Pearl" by John Steinbeck: A Transitivity Analysis*. International Conference on "Interactions and Interchanges: Literature, Culture, Globalization"
15. Raza, H., Alam, M., Shafiq, M., Naveed, Z., (2018). *Relationship between Performance and Emotional Intelligence on Written English Test of Undergraduate Students in Pakistan*. 4th International Conference of the Linguistic Association of Pakistan 2018.
16. Naveed, Z., Shah, K., Raza, H., (2018). *Representation of Ideologies in Pakistan Studies Textbook for O level by Foreign Authors: A Study through CDA Analysis*. 4th International Conference of the Linguistic Association of Pakistan 2018.
17. Raza, H., Sarfraz, S., Alam, M., Shafiq, M., Naveed, Z., (2018). *Learners Need Analysis of English Courses for Business Administration Degree Program at the Undergraduate Level in Pakistan*. 1st Intl. Conference of English Language & Literature Education Society.
18. Naveed, Z., Raza, H., (2018). *Use of Idiosyncratic Words, Expression, Phrases and Sentences in Individual, Pair and Group Communication by Urdu Speaking Children at Home in Pakistan*. 1st Intl. Conference of English Language & Literature Education Society.

Conference Oral Presentations:

1. Raza, H., Alam, M., Naveed, Z., Naseem, M., (2019). *Developing Pakistani Sign Language to Written Text System: A Prototype Development*. Presented at 1st National Conference on Linguistic Challenges in Regional Integration and Globalization (CLRIG'20).
2. Raza, H., Alam, M., Naveed, Z., (2019). *Urdu Speech Recognition based on Artificial Neural Network*. Presented at 1st National Conference on Linguistic Challenges in Regional Integration and Globalization (CLRIG'20).
3. Raza, H., Alam, M., Naveed, Z., Shafiq, M., (2019). *Relationship between Performance and Emotional Intelligence on Listening English Test of Undergraduate Students in Pakistan*. Presented at 1st National Conference on Linguistic Challenges in Regional Integration and Globalization (CLRIG'20).
4. Raza, H., Naveed, Z., Alam, M., (2019). *Using Neural Networks Model to Develop Urdu Grammatical Error Corrector: A Prototype Study*. Presented at 5th International Conference of the Linguistic Association of Pakistan 2019.
5. Raza, H., Rasool, A., (2019). *Using KNN Algorithm for Kalasha Spelling Correction: A Prototype Development*. Presented at 5th International Conference of the Linguistic Association of Pakistan 2019.
6. Raza, H., Naveed, Z., (2018). *Exploring Verbal Aggression in News Articles Using USAS: A Corpus Based Study*. Presented at International Conference on English Language and Linguistics (ICELL 2019).
7. Raza, H., Alam, M., Farooq, A., Naveed, Z., Naseem, M., (2018). *Analyzing Semantic Change through Semantic Mapping of "Power" in Pakistani Newspaper Articles from Afghan and Iraq Wars*. Presented at National Conference on TESOL, Linguistics and Literature (CTLL 2019).
8. Naveed, Z., Shah, K., Raza, H., (2018). *Portrayal of Women in "The Pearl" by John Steinbeck: A Transitivity Analysis*. Presented at International Conference on "Interactions and Interchanges: Literature, Culture, Globalization"
9. Raza, H., Alam, M., Shafiq, M., Naveed, Z., (2018). *Relationship between Performance and Emotional Intelligence on Written English Test of Undergraduate Students in Pakistan*. Presented at 4th International Conference of the Linguistic Association of Pakistan 2018.
10. Raza, H., Sarfraz, S., Alam, M., Shafiq, M., Naveed, Z., (2018). *Learners Need Analysis of English Courses for Business Administration Degree Program at the Undergraduate Level in Pakistan*. Presented at 1st Intl. Conference of English Language & Literature education Society.
11. Naveed, Z., Raza, H., (2018). *Use of Idiosyncratic Words, Expression, Phrases and Sentences in Individual, Pair and Group Communication by Urdu Speaking Children at Home in Pakistan*. Presented at 1st Intl. Conference of English Language & Literature education Society.

Conference Poster Presented:

1. Raza, H., Naveed, Z., (2018) Compliment Responses: *A Comparative Study of English and Urdu Medium Schools in Pakistan*. Presented at 1st International Conference on Social Sciences & Humanities.

Corpus Development Projects:

- Collecting corpora for English, Urdu, Punjabi, Kalasha, Balochi and Dawoodi
- Collecting corpus of Urdu news headlines related to COVID's three waves in Pakistan
- Collecting corpus of Pakistani Newspaper Columns related to COVID-19
- Collecting corpus of EFL student's email (currently 500, 000 words collected)
- Collecting corpus of student's paragraphs (currently 5, 000 words collected)
- Collecting corpus of motivational letters (currently 5, 000 words collected)
- Collecting corpora of Pakistani books, newspapers and research articles (currently 1 million collected).
- Collecting corpora of final year project reports of computer science students (currently 300, 000 collected)
- Collected corpus of Mystical and Religious Narratives in Punjab under Professor Dr. Hassan Abbas's (NDU, USA) supervision

- Collected corpus of Pakistani Sign Language for a research project
- Collected corpus of Linguistic Landscape of Lahore for a research project

Computational Prototype Developments:

- Kalasha Spell Checker
- Urdu Grammar Checker using Neural Network and K-nearest Neighbours
- Pakistan Sign Language Recognition through Neural Network
- English to Urdu translator using Neural Network
- Urdu Parser through Dependency Model
- Urdu Speech Recognition based on Artificial Neural Network
- Language Mapping of Pakistan
- Machine Learning based Urdu Sentence Splitter
- Pakistani Sign Language to Written Text System
- Urdu Spell Checker by using K-nearest Neighbours
- Urdu Spell Checker by using Radix Trie
- Punjabi Spell Checker by using Radix Trie
- Bilingual Concordance for Enhancing Academic Vocabulary

Projects:

- Naive Bayes for sentiment analysis on tweets
- Sentiment Analysis with Logistic Regression
- English Parts of Speech Tagger
- Auto-complete system
- Jazz improvisation with LSTM
- Predicting the countries from the capitals through Vector Space Models
- Neural Machine Translation with Attention
- Auto Correct System through Minimum Edit Distance
- Built a neural network
- Naive Machine Translation and LSH
- Developing Basic English reading and writing online lab for undergraduate students
- Developed a paragraph checker prototype
- Participated and presented research project on Pakistan Sign Language in SOFTEC' 19 at FAST-NU
- Transitivity choices used by Uzma Aslam Khan for the portrayal of female characters in The Geometry of God (2008)
- Transitivity choices used by Uzma Aslam Khan for the portrayal of female characters in Trespassing (2003)
- Ideology representation by foreign writers in Pakistan Studies Textbook for GSE exam under CDA
- Exploring verbal aggression in news articles, editorials and letter to editors using USAS
- Critical Discourse analysis of Pakistan studies books for O Levels by national and international authors
- Participated and presented research project on Bilingual Concordance in SOFTEC' 17 at FAST-NU
- Syntactic analysis of the poem "Nature" by Hugh Doston Carberry
- Deriving derivational morphemes of Balochi language
- Deriving inflectional morphemes of Urdu language
- Worked in a group for developing English-Urdu Neural Network Translation model
- Using theory of Emotional Intelligence in developing a language teaching methodology
- Designed English language curriculum for undergraduate business program at FAST-NU
- Developed a theoretical framework for English language spelling checker
- Designed a CALL based activity for learning spellings
- Developed a research based teaching approach following learning and acquisition theories
- Research based project on idiosyncratic structures of 1-2 years child
- Research on "The Impact of Internet and Smartphones on Language Learning"
- Research project on the syntactic structure of English and Urdu sentences
- Research project on the relationship of structure of brain and language learning

Courses/Trainings:

Currently Enrolled:

- **Natural Language Processing** specialization from Coursera offered by *Deep Learning AI*

Completed:

- **Winter School** at the **University of Verona**
- **Natural Language Processing with Classification and Vector Spaces** from Coursera offered by *Deep Learning AI*
- **Big Data and Language** from Coursera offered by *KAIST*
- **Machine Translation** from Coursera offered by *Karlsruhe Institute for Technology*
- **Introduction to Calculus** from Coursera offered by *The University of Sydney*
- **Sequence Models** course from Coursera offered by *Deep Learning AI*
- **Neural Networks and Deep Learning** course from Coursera offered by *Deep Learning AI*
- **Python Basics** from Coursera offered by *University of Michigan*
- **Programming Fundamentals** from Coursera offered by *Duke University*

- **Perform Sentiment Analysis with scikit-learn** from Coursera (Guided Project)
- **Introduction to Natural Language Processing in Python** from Coursera (Guided Project)
- **Create Your First Chatbot with Rasa and Python** from Coursera (Guided Project)
- **Named Entity Recognition using LSTMs with Keras** Coursera (Guided Project)
- **Using Educational Technology in the English Language Classroom** under RELO-U.S State Department's Scholarship offered by *Iowa State University*
- **Professional Development of English Teachers** under RELO-U.S State Department's Scholarship by *Ball State University*
- **Python for NLP** through Plural sight
- HP LIFE e-Learning course on "**Strategic planning**"
- HP LIFE e-Learning course on "**Effective Leadership**"
- Diploma in Hardware and Software
- Diploma in Information Technology

Audited:

- Auditing Data Structures offered by University of Michigan on Coursera
- Audited Algorithm Toolbox offered by University of Michigan on Coursera
- Audited Python for Everybody offered by University of Michigan
- Audited Language Revival: Securing the future of Endangered Languages on EdX
- Audited Corpus Linguistics: Method, Analysis, Interpretation from FutureLearn
- Audited tensorflow from basics to mastery on deeplarning.ai
- Audited Artificial Intelligence and Programming Fundamental Courses at FAST-NUCES

Webinar/Symposium/Workshops:

- Symposium on Diversity and Unity in Transnational Shi'ism by Harvard
- Exploring the Gender Pay Gap with Python an event by HiPy
- Introduction to Python an event by HiPy
- Visualize my Corpus a workshop by Lancaster University
- Analytics in a Day: Build an end-to-end analytics solution with Azure (Synapse+PowerBI) by Databricks
- Five day workshop for "English for Specific Purpose Massive Online Open Courses" (MOOC) Camp funded by U.S State Department
- One day conference on "Best Practices in English Language Teaching" at FAST-NU
- One day "LaTeX" Workshop under Continuing Professional Development Program
- One day Workshop on "Managing Research Using Latest Software's"
- One day Workshop on "SPSS Advance"
- One day Workshop on "Entrepreneurship"

Demonstrated Skills and Abilities:

- Natural language processing program developer through Python
- Web developer through Python's Django framework
- Syllabus design and curriculum developer
- Building datasets for language processing
- Teacher trainer for integrating ICT in language teaching
- Experience of English language teaching and learning software development
- Experience of using Praat (Basic)
- Experience of corpus development
- Experience of collecting and analysing research data and linguistic landscape
- Study counsellor for motivating students and providing guidance
- Planning and organizational skills that help to maintain balance between work, ad-hoc responsibilities and team support
- Enjoys sharing knowledge and encouraging development of others to achieve specific team goals
- Maintain and promote engaged classroom environment
- Experience of using google sheets, forms and docs
- Field researcher to collect data through, surveys, observations and interviews

Award/Achievement:

- Successfully Organized 1st National Conference on Linguistic Challenges in Regional Integration and Globalization as Lead Organizer and Focal Person
- Received Significant Appreciation for research project on Bilingual Concordance in SOFTEC' 17 at FAST-NU
- Reached to Badminton Doubles Semi-Final in Magna'19 at Forman Christian College
- Reached to Football Quarter Final in Punjab Sports Festival

Volunteer Work:

- Focal Person and Lead Organizer for 1st National Conference on Linguistic Challenges in Regional Integration and Globalization
- Facilitated the Professional Development of English Teachers by Ball State University
- Trainer for using MOOC in language teaching and learning
- Organized session on "Language Learning through ICT" in SOFTEC' 17
- Organized conference on "ELT Best Practices" for language teachers at FAST-NU
- Worked for M.S Applied Linguistics admissions for Spring-2017 and onwards at FAST-NU

FAST-NUCES–Visiting Language Lab Instructor: _____

Courses:

- Reading Comprehension and Writing Composition
- Communication and Presentation Skills
- Reading Comprehension
- English Language Skills

Responsibilities:

- Focusing on individualized teaching by assessing individual needs
- Working as a coordinator for Language Lab Instructors
- Reinforcement of concepts covered in classroom for all language skills
- Preparing & updating course outline and curriculum for English Labs
- Providing extensive practice to the learners with the help of technology
- Planning and preparing activities that stimulate growth in language, critical thinking, social, and motor skills
- Fostering a classroom environment conducive to learning and promoting three way interaction
- Providing abrupt feedback to learners
- Maintaining and analysing student's performance record for each content and as a whole
- Conducting professional development workshops and meetings on weekly basis
- Preparing and checking exams (Quizzes, Mid-term and Final)

University of Central Punjab – Visiting English Lecturer: _____

Courses:

- Basic English Writing
- English Reading and Comprehension

Responsibilities:

- Preparing and delivering classroom lectures
- Preparing and conducting classroom activities
- Providing feedback to the learners for the classroom activities
- Fostering a classroom environment conducive to learning and promoting three way interaction
- Preparing and checking exams (Quizzes, Mid-term and Final)
- Attending professional development meetings

Punjab University College of Information Technology– Visiting English Lecturer: _____

Courses:

- Communication Skills

Responsibilities:

- Fostering a classroom environment conducive to learning and promoting three way interaction
- Working on to improve student's presentation and communication skills
- Preparing and checking exams (Quizzes, Mid-term and Final)

FAST-NUCES–Visiting Instructor: _____

Courses:

- Technical Business Writing
- Reading Comprehension and Writing Composition
- Communication and Presentation Skills
- Reading Comprehension
- English Language Skills

Responsibilities:

- Preparing and delivering classroom lectures
- Preparing & updating course outlines
- Fostering a classroom environment conducive to learning and promoting three way interaction
- Focusing on individualized teaching by assessing individual needs
- Preparing and conducting classroom activities
- Maintaining and analysing student's performance record for each content and as a whole
- Attending weekly professional development workshops & meeting
- Preparing and checking exams (Quizzes, Mid-term and Final)

LIFE–Visiting Lecturer: _____

Course:

- Computer and Language Learning (CLL)

Responsibilities:

- Teaching Computer Aided Language Learning course
- Designing syllabus and course outline for the course
- Providing hands on practice to learners to use computers for language teaching and learning
- Fostering a classroom environment conducive to learning and promoting three way interaction
- Providing feedback to the students on their performance
- Maintaining and analysing student's performance record for each content and as a whole

- Attending professional development workshops
- Facilitating learners inside and outside the classroom
- Preparing and checking exams (Quizzes, Mid-term and Final)

Ernst & Young–Monitoring Officer: _____

Responsibilities:

- Visiting training centres and completing forms for inspection and monitoring
- Visiting different locations for On-Job training and Employment verification
- Reporting collected data to the concern supervisor
- Providing training to the new hiring
- Assisting in data entry and reviewing final reports
- Involved in preparing, testing and implementing e-monitoring
- Involved in training for the use of e-monitoring application

Hope Foundation-Teacher Assistant: _____

Responsibilities:

- Assist Teachers during enhancement activities
- Planning new activities
- Drafting model lesson plans
- Facilitate Coordinator & Access teachers in student observations

Rabtt–Research Assistant: _____

Responsibilities:

- Familiarises with basic research methods
- Use and construction of psychometric tools
- The mathematical structure of statistical tests
- Use of SPSS software for data entry and analysis
- Conducting and collecting data through surveys

FAST-NUCES–Front Desk Officer: _____

Responsibilities:

- Responding to admissions queries on phone and by email
- Providing information to the prospective students
- Invigilation during admission tests

Membership: _____

- Massive Online Open Course (MOOC) Ambassador for Regional English Language Office- U.S State Department
- Linguistics Association of Pakistan
- Student Ambassador at “NCUK”

Extra-Curricular: _____

- Traveller, Photographer, Sportsman

Languages: _____

- Urdu (Native)
- English (Professional)
- Punjabi (Elementary Proficiency)