REZA KHAN MOHAMMADI

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EDUCATION

Michigan State University   **Fall 2022 - Present**

· **Ph.D. Computer Science, GPA: 3.9**

University of Guilan   **Sep 2017 - Aug 2021**

· **B.Sc in Computer Engineering, GPA: 18.36/20 (3.86/4)**
Thesis: Prose2Poem: The blessing of Transformers in Translating Prose to Persian Poetry ↗

RESEARCH ASSISTANT EXPERIENCES

- Human Augmentation and Artificial Intelligence Laboratory   **Jul 2021 - Present**
AI Researcher @ HAAIL - under supervision of Dr. MM. Ghassemi

Projects: • Feature Imitating Networks • Startup Success Prediction • Cancer Symptom Extraction
• Fetal Biological Sex Identification • Basketball Game Outcome Prediction

- Georgia Southern University   **Mar 2020 - Jun 2020**
NLP Researcher (Volunteer) - under supervision of Dr. M. Allahyari

Projects: • Document ranking using Transformers

- Guilan NLP Group   **Sep 2019 - Present**
NLP Researcher ↗ - under supervision of Dr. S. A. Mirroshandel

Projects: • Bilingual Image Captioning • Text Style Transfer • Poetry Generation • Abstractive
Summerization • Text Style Transfer

ENTREPRENEURIAL EXPERIENCE

GamerTag   Ꮐ   **Fall 2022 - Present**
· Co-Founder & Chief Data Officer   *Klagenfurt, Austria*

TECHNICAL STRENGTHS

Technical Expertise	Artificial Intelligence, Deep Learning, Machine Learning, Natural Language Processing, Signal Processing
Non-Technical Expertise	Innovation, Leadership, Management, Problem Solving, Public Speaking
Programming Languages	C/C++, Java, MATLAB, Python, VHDL
Web Development Tools	CSS, Django, HTML
Data Science Tools	Jupyter Notebook, Numpy, Pandas, scikit-learn, SQL
Artificial Intelligence Tools	Hugging Face, Keras, PyCharm, PyTorch, Tensorflow
Cloud Computing Tools	Amazon AWS, Microsoft Azure

RESEARCH PAPERS

The Broad Impact of Feature Imitation: Neural Enhancements Across Financial, Speech, and Physiological Domains - (Under Review)   ↗
R. Khanmohammadi, T. Alhanai, MM. Ghassemi

Science Impacts Industry: Investigating the Relationship Between Scientific Advancements and Industrial Funding - (Under Review)
R. Khanmohammadi, S. Kaur, C. H. Smiley, T. Alhanai, A. Nourbakhsh, I. Brugere, MM. Ghassemi

A Primer on Modern Natural Language Processing Techniques and Roadmap to Clinical use in Radiation Oncology - (Under Review)
R. Khanmohammadi, MM. Ghassemi, K. Verdecchia, A. I. Ghanem, L. Bing, I. J. Chetty, H. Bagher-Ebadian, F. Siddiqui, M. Elshaikh, B. Movsas, K. Thind

A Novel Learning Approach for Training Transformer-Based Natural Language Processing Pipeline to Extract Toxicity Symptoms in Prostate Cancer Patients after Definitive Radiotherapy - (Published)
R. Khanmohammadi, MM. Ghassemi, AI. Ghanem, M. Elshaikh, K. Verdecchia, I.J. Chetty, K. Thind

MambaNet: A Hybrid Neural Network for Predicting the NBA Playoffs - (Under Review)
R. Khanmohammadi, S. Saba-Sadiya, S. Esfandiarpour, T. Alhanai, MM. Ghassemi   ↗

Fetal Gender Identification using Machine and Deep Learning Algorithms on Phonocardiogram Signals - (Under Review)
R. Khanmohammadi, MS. Mirshafiee, MM. Ghassemi, T. Alhanai   ↗

Prose2Poem: The blessing of Transformers in Translating Prose to Persian Poetry - (Published)
R. Khanmohammadi, MS. Mirshafiee, YR. Jouryabi, SA. Mirroshandel   ↗

COPER: a Query-adaptable Semantics-based Search Engine for Persian COVID-19 Articles - (Published)
R. Khanmohammadi, MS. Mirshafiee, M. Allahyari   ↗

PGST: a Persian Gender Style Transfer method - (Published)
R. Khanmohammadi, SA. Mirroshandel   ↗

Text Style Transfer in Persian Language using Deep Learning
R. Khanmohammadi, SA. Mirroshandel   ↗

HONORS & AWARDS

Most Active Committee chair University of Guilan	**Oct 2021**
Exceptional Undergraduate Student Talent University of Guilan	**Aug 2020**
Active Student Ambassador International University Sports Federation (FISU)	**Jan 2020**
National Representative National University Sports Federation of I.R. Iran	**Aug 2019**
Full Scholarship, B.Sc, University of Guilan University of Guilan	**Aug 2017**

LEADERSHIP EXPERIENCES

Rasht School of AI   **Dec 2020 - Present**
Leader   *Rasht, Iran*

Brain and Cognition Association of the University of Guilan   **Oct 2020 - Present**
Head of Artificial Intelligence Committee   *Rasht, Iran*

Scientific Association of the Computer Engineering Department   **Oct 2020 - Present**
Head of Research Affairs   *Rasht, Iran*

National Olympiad Volunteer committee   **Sep 2019 - Present**
Vice-Chairman   *Rasht, Iran*

International University Sports Federation (FISU)   **Sep 2019 - Sep 2020**
Iran's FISU Student Ambassador 🔗   *Iran*

VOLUNTEERING EXPERIENCES

Mentorship   **Dec 2020 - Present**
School of AI

Web Application   **Fall 2017**
Physical education and Sport Sciences faculty of the University of Guilan   *Rasht, Iran*

TEACHING ASSISTANT EXPERIENCES

Deep Learning   **Spring 2022**
Instructor: Dr. SA. Mirroshandel   *Head TA*

Natural Language Processing   **Spring 2021**
Instructor: Dr. Y. Boreshban   *Head TA*

Computational Intelligence   **Spring 2020 / Fall 2020 / Spring 2021**
Instructor: Dr. A. Turani   *Head TA*

Language Theories and Automata   **Spring 2020**
Instructor: Dr. SM. Shekarian   *TA*

Data Structures and Algorithm Design   **Fall 2019**
Instructor: Dr. SA. Mirroshandel   *Head TA*

Advanced Programming   **Spring 2019 / Fall 2019**
Instructor: Dr. SA. Mirroshandel   *Head TA*

Basics of Computer and Programming   **Fall 2018**
Instructor: Dr. SM. Shekarian   *TA*

Specialized English for engineering students   **Spring 2018**
Instructor: Dr. M. Shakeri   *TA*

CERTIFICATIONS

- ✺ **Certificate of Oral Presentation** - International Conference on Web Research (ICWR) - May 2021
- ✺ **Artificial Intelligence School** - Institute for Research in Fundamental Sciences - Aug 2020
- ✺ **FISU Student Ambassador** - International University Sports Federation (FISU) - Sep 2019
- ✺ **Neuroscience, Cognitive Sciences and Philosophy Summer School** - Sharif University of Technology - Sep 2019
- ✺ **Deep Learning Specialization** - Coursera, Instructor: Andrew Ng - Aug 2019
- ✺ **Machine Learning Course** - Coursera, Instructor: Andrew Ng - May 2019
- ✺ **Introduction to Data Science in Python Course** - Coursera, Instructor: Christopher Brooks - Apr 2019
- ✺ **Basketball Coaching License** - Iran Basketball Federation - Apr 2019
- ✺ **Python Advanced Course** - University of Tehran - Aug 2018
- ✺ **Web Development Specialization** - Tehran Institute of Technology - Jul 2016

LANGUAGES COMPETENCIES

Persian: Native	**English:** Fluent	**German:** Intermediate

REFERENCES

Dr. Mohammad M. Ghassemi **Michigan State University**
ghassem3@msu.edu ↗

· Assistant Professor
· National Scholar of Data and Technology Advancement, National Institutes of Health
· Founder, Ghamut Corporation
· Research Affiliate, Massachusetts Institute of Technology

Dr. Tuka Alhanai **New York University - Abu Dhabi**
tuka.alhanai@nyu.edu ↗

· Assistant Professor
· co-Founder, Ghamut Corporation
· Research Affiliate, Massachusetts Institute of Technology

Dr. Kundan Thind **Henry Ford Health System**
kthind1@hfhs.org ↗

· Vice Chair of Academics, Radiation Oncology

Dr. Seyed Abolghasem Mirroshandel **University of Guilan**
mirroshandel@guilan.ac.ir ↗

· Associate Professor
· Head of the Computer Engineering Department
· Research And Development Manager at AVID Technology Development