

TAHER RAHGOOY

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ABOUT ME

I am currently a Ph.D. student and a Research Assistant looking for internship opportunities in areas such as Machine learning, Natural Language Processing, and Data Science. I have work experience in software development and design, research, and teaching. I have published several papers in top conferences including EMNLP, IJCAI, and NAACL. Currently, I am working on learning cognitive models of decision making using machine learning approaches.

EXPERIENCE

Research Assistant 📅 Aug 2019 - Present 📍 Pensacola, FL
University of West Florida

Working on incorporating cognitive models of decision making into preference learning methods with applications in recommender systems, marketing, etc.

- Proposed a method for learning a cognitive model from users' choice data.
- Presented and published a paper in **IJCAI 2019** conference.

Preference Learning Recurrent Neural Nets Python Scikit-Learn PyTorch

Research & Teaching Assistant 📅 Aug 2017 - Aug 2019 📍 New Orleans, LA
Tulane University

Project 1: Worked on different aspects of spatial relation extraction from multi-modal data.

- Proposed a method to combine image and text models using **structure-output-prediction**.
- Improved the state-of-the-art results of spatial language understanding significantly.
- Presented and published two papers in **EMNLP 2017** and **NAACL 2018** conferences.

Scala Java Linear Programming Natural Language Processing Deep Learning

Project 2: Worked on modeling the effect of negative feedback and toxic comments on users' contribution in online communities.

- Proposed a toxicity analysis method by learning a weighted lexicon.
- Proposed a Hierarchical Hidden Markov model for users behavior over time

MCMC Sampling Hierarchical Bayesian Inference NLTK Scikit-Learn Python

Teaching Assistance:

- Intro to Machine Learning - Fall 2017
- Intro to Computer Science II - Spring 2018
- Intro to Graphics - Fall 2019
- Intro to Computer Systems - Spring 2019

Co. Founder and CTO 📅 Nov 2019 - Present 📍 USA
Happ Inc.

Happ is a mobile application that helps users find happy hour specials.

- Prepared guidelines for different stages of software development guidelines from coding standards to CI/CD
- Supervised the development team, held training sessions, and communicated to the other teams
- Created a website for app administration and data population
- Created a mobile app for iOS and Android (will be released in Dec 2020)

React.js React Native Java Script CSS Design Patterns

RESEARCH INTERESTS

Machine Learning Preference Learning

Natural Language Understanding AI

Data Science Deep Learning

PROGRAMMING SKILLS

C# Python Java C/C++ JavaScript

COURSEWORK

Machine Learning Data Structures

Artificial Intelligence Statistical Inference

Statistical Pattern Recognition Algorithms

Evolutionary Algorithms Neural Networks

EDUCATION

Ph.D. in Intelligent Systems & Robotics
University of W. Florida

📅 Aug 2019 - Present 📍 Pensacola, FL

Ph.D. in Computer Science (GPA: 3.92)
Tulane University (Transferred to UWF)

📅 Aug 2017 - Aug 2019 📍 New Orleans, LA

M.S. in Artificial Intelligence

Ferdowsi University of Mashhad

📅 Sept 2008 - June 2011 📍 Mashhad, IR

B.S. in Computer Engineering

University of Isfahan

📅 Sept 2001 - May 2007 📍 Isfahan, IR

LANGUAGES

English Farsi Kurdish Arabic

PUBLICATIONS

Journal Articles

- **Taher Rahgooy**, Hadi Sadoghi Yazdi, and Reza Monsefi (2009). “**Fuzzy Complex System of Linear Equations Applied to Circuit Analysis**”. In: International Journal of Computer and Electrical Engineering 1.5, p. 535.

Conference Proceedings

- Babaei, Hamed, Mostafa Rahgouy, and **Taher Rahgooy** et al. (2019). “**Author Profiling: Bot and Gender Prediction using a Multi-Aspect Ensemble Approach**”. In: Working Notes of CLEF 2019 - Conference and Labs of the Evaluation Forum, Lugano, Switzerland, September 9-12, 2019.
- Rahgouy, Mostafa, Hamed Babaei Giglou, and **Taher Rahgooy** et al. (2019). “**Cross-domain Authorship Attribution: Author Identification using a Multi-Aspect Ensemble Approach**”. In: Working Notes of CLEF 2019 - Conference and Labs of the Evaluation Forum, Lugano, Switzerland, September 9-12, 2019.
- **Taher Rahgooy** and K. Brent Venable (2019). “**Learning Preferences in a Cognitive Decision Model**”. In: Proceedings of Joint Workshop on Human Brain and Artificial Intelligence, HBAI2019.
- Rahgouy, Mostafa, Hamed Babaei Giglou, **Taher Rahgooy**, et al. (2018). “**Author Masking Directed by Author’s Style: Notebook for PAN at CLEF 2018**”. In: Working Notes of CLEF 2018 - Conference and Labs of the Evaluation Forum, Avignon, France, September 10-14, 2018.
- **Taher Rahgooy**, Umar Manzoor, and Parisa Kordjamshidi (2018). “**Visually Guided Spatial Relation Extraction from Text**”. In: Proceedings of the 2018 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, NAACL-HLT, New Orleans, Louisiana, USA, June 1-6, 2018, Volume 2 (Short Papers), pp. 788–794.
- Kordjamshidi, Parisa, **Taher Rahgooy**, and Umar Manzoor (2017). “**Spatial Language Understanding with Multimodal Graphs using Declarative Learning based Programming**”. In: Proceedings of the 2nd Workshop on Structured Prediction for Natural Language Processing, SPNLP@EMNLP, Copenhagen, Denmark, September 2017, pp. 33–43.
- Kordjamshidi, Parisa, **Taher Rahgooy**, Marie-Francine Moens, et al. (2017). “**CLEF 2017: Multimodal Spatial Role Labeling Task Working Notes**”. In: Working Notes of CLEF 2017 - Conference and Labs of the Evaluation Forum, Dublin, Ireland, September 11-14, 2017.
- Mansoorizadeh, Muharram, Mohammad Aminian, et al. (2016). “**Multi Feature Space Combination for Authorship Clustering**”. In: Working Notes of CLEF 2016 - Conference and Labs of the Evaluation forum, Évora, Portugal, 5-8 September, 2016. Pp. 932–938.
- Mansoorizadeh, Muharram and **Taher Rahgooy** (2016). “**Persian Plagiarism Detection Using Sentence Correlations**”. In: **Working notes of FIRE 2016 - Forum for Information Retrieval Evaluation, Kolkata, India, December 7-10, 2016**. Pp. 163–166.
- Mansoorizadeh, Muharram, **Taher Rahgooy**, et al. (2016). “**Author Obfuscation using WordNet and Language Models**”. In: Working Notes of CLEF 2016 - Conference and Labs of the Evaluation forum, Évora, Portugal, 5-8 September, 2016. Pp. 939–946.

REFERENCES

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University of West Florida, Pensacola, FL

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