TAHER RAHGOOY

PhD in Intelligent Systems & Robotics

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EXPERIENCE

Research Assistant
📅 Aug 2019 – Dec 2021   📍 Pensacola, FL

University of West Florida

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

- Proposed various methods for learning a cognitive model from users' choice data.
- Designed multiple neural networks architectures for integrating cognitive biases for preferential choice problems
- Presented and published papers in **IJCAI 2019**, **AAAI Fall Symposium 2021**, and **WHMD 2021** conferences.

Preference Learning   Neural Networks   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.

DrinQs 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
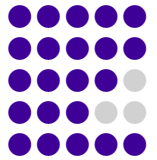- Created a mobile app for iOS and Android

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 (GPA: 4)

University of W. Florida

📅 Aug 2019 – Dec 2021   📍 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

PUBLICATIONS

👥 Journals and Conference Proceedings

- Ganapini, Marianna B et al. (2022). "**Combining Fast and Slow Thinking for Human-like and Efficient Navigation in Constrained Environments**". In: arXiv preprint arXiv:2201.07050.

- Glazier, Arie, Andrea Loreggia, Nicholas Mattei, **Taher Rahgooy**, Francesca Rossi, and Brent Venable (2022). "**Learning behavioral soft constraints from demonstrations**". In: arXiv preprint arXiv:2202.10407.

- Giglou, Hamed Babaei, **Taher Rahgooy**, Mostafa Rahgouy, et al. (2021). "**UoT-UWF-PartAI at SemEval-2021 Task 5: Self Attention Based Bi-GRU with Multi-Embedding Representation for Toxicity Highlighter**". In: Proceedings of the 15th International Workshop on Semantic Evaluation (SemEval-2021), pp. 948–952.

- Giglou, Hamed Babaei, **Taher Rahgooy**, Jafar Razmara, et al. (2021). "**Profiling Haters on Twitter using Statistical and Contextualized Embeddings**". In: CLEF.

- Glazier, Arie, Andrea Loreggia, Nicholas Mattei, **Taher Rahgooy**, Francesca Rossi, and K Brent Venable (2021). "**Making human-like trade-offs in constrained environments by learning from demonstrations**". In: arXiv preprint arXiv:2109.11018.

- 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 - Fo-**
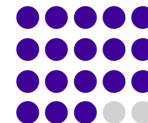
LANGUAGES

English
Farsi
Kurdish
Arabic

REFERENCES

Prof. K. Brent Venable
@ bvenable@ihmc.us
✉ Department of Computer Science
University of West Florida, Pensacola, FL

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Prof. Nicholas Mattei
@ nsmattei@tulane.edu
✉ Department of Computer Science
Tulane University, New Orleans, LA

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Prof. Anastasia Kurdia
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✉ Department of Computer Science
Tulane University, New Orleans, LA

rum 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.

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