Mohammadzaman Zamani

PERSONAL INFORMATION	Computer Science Department Stony Brook University New York, USA	www3.cs.stonybrook.edu/~mzamani/ link to Google Scholar mohammadzzamani@gmail.com
SUMMARY	 A veteran software developer with +15 years experience in Python, Java, C/C++ and Matlab, with 3 years of lead data scientist and 1 year as social network research scientist. Having strong theoretical computer science background in algorithm design, data structures and graph theory, with interests in data and graph mining, NLP, social network analysis and computational social science. 	
WORK EXPERIENCE	• Lead Data Scientist at AT&T Labs, NJ, USA, 2018 – 2020	
	 Designed logistic regression and de for AT&T home services to reduce 	ep learning models for unbalanced datasets of millions of devices number of physical dispatches.
	- Automated data gathering and mer	ging from various live data feeds into Hadoop Data Lake.
	 Applied various machine learning a tree algorithms, random forests, an 	algorithms such as classification, regression, clustering, decision d time series methods using Keras, Pandas and Scikit-learn.
	• Data Science Consultant at Broadric	lge Financial Solutions, NY, USA, 2019
	 Designed and developed a custo This deep learning based model as their socio-economics and der new costumer. 	omer to agent matching recommendation system in Keras. digs into costumers and agents behavioral features as well mographics metrics to appropriately assign an agent to each
	• Research Assistant at Human Language Analysis Labs, Stony Brook University, USA, 2015 – present	
	 Designed a novel lexical contagio over friendship connections. 	usness measure to evaluate the diffusive power of lexical units
	 Designed various models to effectiv for county-wise real estate, health a 	vely integrate extra-linguistic data into language predictive model and psychological tasks.
	 Designed a new online learning be cascaded version of the randomized 	ased method for language predictive models. We introduced a d weighted majority algorithm for online spam detection.
	Social Network Researcher at Max	Planck Institute for intelligent systems, Germany, 2014
	 Designed an innovative approach works. We exploited continuous and applied Importance Sampling cascades. 	for source identification in rumor propagation over social net- time diffusion network models by leveraging Poisson Process, to calculate the Maximum Likelihood Estimate over incomplete
	• Software developer at Medopad, Tehran. 2012 – 2013	
	 Developed an enterprise medical constrained using DICOM standard. 	ommunication service to connect hospitals, doctors, and patients
SKILLS	• Programming Languages: Python, Java, PySpark, Matlab, C/C++, SQL, PHP, JavaScript	
	• Tools: Eclipse, Vim, NetBeans, Xcode, QtCreator, .NET Visual Studio, Git	
	• Frameworks: Boost, Keras, CUDA, S	symtony, Snap, Weka, MOA, DCMTK.

EDUCATION

- PhD Candidate in Computer Science at Stony Brook University, USA 2014 present
- *M.Sc. in Artificial Intelligence* at **Sharif University of Technology**, Tehran 2010 2012
- *B.Sc. in Software Engineering* at Sharif University of Technology, Tehran 2006 2010

PUBLICATIONS

- **S** 1. Mohammadzaman Zamani, H. Andrew Schwartz; 'Contrastive Lexical Diffusion Coefficient: Quantifying the Stickiness of the Ordinary'; Under review WWW 2021.
 - 2. Mohammadzaman Zamani, H. Andrew Schwartz, Johannes Eichstaedt, Sharath Chandra Guntuku, adithya Ganesan, Sean Clouston, Sal Giorgi; 'Understanding Weekly COVID-19 Concerns through Dynamic Content-Specific LDA Topic Modeling'; NLP+CSS 2020.
 - 3. Matthew Matero, Akash Idnani, Youngseo Son, Sal Giorgi, Huy Vu, **Mohammadzaman Zamani**, Parth Limbachiya, Sharath Chandra Guntuku, H. Andrew Schwartz; '*Suicide Risk Assessment with Multi-level Dual-Context Language and BERT*'; **CLPsych 2019**.
 - 4. Mohammadzaman Zamani, H. Andrew Schwartz, V. Lynn, S. Giorgi & N. Balasubramanian; *Residualized Factor Adaptation for Community Social Media Prediction Tasks*'; EMNLP 2018.
 - 5. Mohammadzaman Zamani, A. Buffone, H. Andrew Schwartz; 'Predicting User Trustfulness from Facebook Language'; CLPsych 2018,
 - 6. Mohammadzaman Zamani, H. Andrew Schwartz; 'Using Twitter Language to Predict Real Estate Market'; EACL 2017,
 - Mohammadzaman Zamani, Hamid Beigy, Amirreza Shaban; 'Cascading Randomized Weighted Majority Algorithm, A New Online Ensemble Learning Algorithms'; Intelligent Data Analysis 2016,
 - Zhong Sichen, Lu Zhao, Yan Liang, Mohammadzaman Zamani, Rob Patro, Rezaul Chowdhury, Esther M. Arkin, Joseph S. B. Mitchell, & Steven Skiena; 'Optimizing Read Reversal for Sequence Compression'; WABI 2015,
 - 9. Mehrdad Farajtabar, Manuel Gomez-Rodriguez, **Mohammadzaman Zamani**, Nan Du, Hongyuan Zha, Le Song; 'Back to the Past: Source Identification in Diffusion Networks from Partially Observed Cascades'; AISTATS 2015,

HONORS & AWARDS

- Full graduate scholarship and full tuition scholarship, 2014
- Research internship scholarship, Max Planck Institute for intelligent systems, Germany, 2014
- MPI scholarship, ETH/MPI summer school on learning systems, Switzerland, 2014
- Ranked 2nd student of MSc program (GPA 19/20), Sharif University of Technology, 2012
- Recipient of National Elites Foundation (INEF) Scholarship, 2006 to 2010.
- Ranked Top 0.1% in the national university entrance exam (172nd/200,000+ students), 2006
- Recipient of Silver medal in National Informatics Olympiad¹, 2005

¹At the nation-wide stage of the competition. The competition consists of both CS fundamentals and coding.