GEORGE KOUR

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WORK EXPERIENCE

2017 – Present Research Staff Member

IBM RESEARCH

Language and Conversation Group

Our group study machine learning techniques, especially deep neural networks, for natural language processing application. The main goal of the group is conducting original and valuable research, publish papers at top tier conferences and transferring technologies to relevant business units. As a researcher, I am involved in writing research proposal, implementing and training models for various discriminative and generative text related tasks. In addition, I am a member of the AI Technologies Invention Developmnemt Board. The goal of the board members is evaluate invention disclosures, help inventors fine-tune their ideas and decide what invetions are submitted as patent applications.

2016 - 2018 Co-Founder and Senior Researcher

LOFIC

Sagol Department of Neurobiology

As a collaborative music recording platform Lofic uses AI technologies to redefine music creation. My role in the team is to lead the company research efforts in the field of sound improvement.

2016 - 2020 Lecturer - Junior Faculty Member

HAIFA UNIVERSITY

Sagol Department of Neurobiology

I am a lecturer on scientific programming using MATLAB. The course is intended for neuroscience graduate students and its goal is to give introductory programming and problem-solving skills to enable researchers to exploit the power of computing in their research.

2016 – 2017 Research Engineer

HEWLETT PACKARD ENTERPRISE LABS

Analytics Lab

I was involved in several efforts in the lab including developing algorithms for Business Intelligence, clustering by intent and implementing deep neural networks for anomaly detection.

2014 – 2016 Data Science Engineer

HP SOFTWARE R&D

Project: Predictive ALM

As a technical lead of the predictive ALM team, I was responsible for implementing predictive capabilities on top of the data stored in HP application management line of products such as Application Lifecycle Management (ALM), Agile Manager (AGM) and Modern Quality Management (MQM).

2009 – 2014 Software Developer

HP SOFTWARE R&D

Project: Application Lifecycle Management (ALM)

ALM is a set of software products designed for accelerating the delivery of secure, reliable modern applications. I was a member of the client infrastructure team that was responsible for the .Net desktop client platform of ALM. After two years in this position, I have moved to the web client infrastructure team developing the new web interface of ALM Angular.

EDUCATION

2016 – Present **Ph.D Candidate in Neurobiology**

Haifa University
Sagol Department of Neurobioligy
Research Intent: My research aim at elucidating the neural basis of the state representation in the brain.
Advisor: Dr. Genela Morris

2011 – 2014 **Master of Science in Electrical Engineering (cum laude)**

Tel-Aviv University
Faculty of Electrical Engineering · **GPA:** 93.8
Thesis Title: *Real-time Segmentation and Recognition of On-line Handwritten Arabic Script*
Description: The thesis proposes an approach for segmenting Arabic handwritten strokes while being scribed using classification method based on a wavelet based approximation of the EMD metric.
Advisors: Prof. Dana Ron & Dr. Raid Saabne

2004 – 2009 **Bachelor of Science in Computer Engineering**

Technion - Israel Institute of Technology
Faculty of Computer Science · **GPA**: 83.4
Specialization: *Programming languages and Scientific Programming*
Description: A four-year degree that run in conjunction with the department of Electrical Engineering.

PUBLICATIONS

November 2020 **Balancing via Generation for Multi-Class Text Classification Improvement**

Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing: Findings
Authors: Naama Tepper, Esther Goldbraich, Naama Zwerdling, George Kour, Ateret Anaby Tavor, Boaz Carmeli

February 2020 **Do Not Have Enough Data? Deep Learning to the Rescue!**

AAAI Conference on Artificial Intelligence
Authors: Boaz Carmeli, George Kour, Naama Zwerdling, Amir Kantor, Naama Tepper, Segev Shlomov, Esther Goldrich

June 2019 **Evaluation Metrics for Generated Text Corpora**

Conference on Empirical Methods in Natural Language Processing (Under Review)
Authors: Boaz Carmeli, Naama Zwerdling, George Kour, Inbal Ronen, Naama Tepper, Matan Eyal, Esther Goldrich

May 2019 **Neural Network Gradient-based Learning of Black-box Functions**

International Conference on Learning Representations
Authors: Alon Jacovi, Guy Hadash, Einat Kermany, Boaz Carmeli, Ofer Lavi, George Kour, Jonathan Berant

April 2019 **Estimating Attentional Set-Shifting in Varying Contextual Bandits**

A PrePrint on bioRxiv
Authors: George Kour, Genella Morris

March 2017 **An Algorithm for Handling Time Prediction of Software Defects**

International Conference on Computer Science and Information Technology
Authors: George Kour, Shaul Strachan, Raz Regev

September 2016 **Prediction-Based, Prioritized Market-Share Insight Extraction**

International Conference on Advanced Data Mining and Applications
Authors: Renato Keshet, Alina Maor, George Kour

September 2014 Real-time Segmentation of On-line Handwritten Arabic Script
International Conference on Frontiers in Handwriting Recognition
Authors: George Kour, Raid Saabne

August 2014 Fast Classification of Handwritten On-line Arabic Characters
International Conference of Soft Computing and Pattern Recognition
Authors: George Kour, Raid Saabne

PATENTS

July 2020 Removing unnecessary history from reinforcement learning state
United States patent application, US20200210884A1.
Inventors: Guy Hadash, Boaz Carmeli, George Kour

July 2020 Deep learning testing
United States patent application, US20200210848A1
Inventors: George Kour, Guy Hadash, Yftah Ziser, Ofer Lavi, Guy Lev

March 2018 Timing estimations for application lifecycle management work items determined through machine learning
Granted United States patent, US10310852B2.
Inventors: Strachan Shaul, Kour George, Regev Raz

April 2017 Using machine learning regression to estimate time for completing application lifecycle management work item
United States Patent Application, US20180307998A1.
Inventors: Strachan Shaul, Kour George, Regev Raz

October 2016 Quality prediction
Granted United States Patent, US10354210B2.
Inventors: Kour George, Toplian Yaniv, Vinik Alon

SPECIAL ACTIVITIES, HONOURS & AWARDS

IBM — October 2018 · **Member of the Invention Development Board** - AI Technologies

Sadaka-Reut — October 2018 · **Board of Directors Memeber** - an Arab-Jewish Partnership Organizations

ISCOL — October 2018 · **Committee Member** - The Israel Seminar of Computational Linguistics

Tel-Aviv Univ. — March 2015 · **Graduation With Honors** - Cum Laude.

HP Software R&D — January 2015 · **Gold Innovator Award** - In recognition of outstanding innovation efforts.
August 2014 · **Innovator Award** - For making a valuable contribution through innovation.

Technion - IIT — Winter 2009, Winter 2008 · **Excelled With Praise** - Dean's List.

November 10, 2020