IDAN SCHWARTZ

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EDUCATION

2015-Current: Direct Ph.D. program at Computer Science Department, Technion. GPA 98

- Topic: Cognition Models in Deep Learning
- Visiting Scholar at University of Illinois at Urbana-Champaign (UIUC)
- Advisors: Prof. Tamir Hazan (Technion), Prof. Alexander G. Schwing (UIUC)

2011-2015: BSc at Computer Science Department, Technion. GPA 88

PROFESSIONAL EXPERIENCE

2020: Leading Researcher at Spot by NetApp
I am leading the research at Spot. Our research team develops data-driven algorithms based on the cloud behavior of thousands of customers.

2019: Researcher at Microsoft corp; Search, Assistant and Intelligence group
I was part of the team that developed deep learning models for meeting insights, such as action item extraction.

2016-2018: Senior Researcher at eBay corp; Catalog product group
Working with Dr. Ido Guy and Dr. Kira Radinsky
I was leading successful research for detecting product deduplication based on NLP and CV solutions. The model I developed allowed the automatic merging of millions of catalog products, reducing the eBay website's overall duplicates from 30% to 12%.

2011-2015: Software Developer at Intel corp.
I developed software framework for chip testing and debugging using C++ (Qt).

2008-2011: Web Developer - IDF service
I worked as full-stack web developer, our web systems that served thousands of customers.

PUBLICATIONS

Removing Bias in Multi-modal Classifiers: Regularization by Maximizing Functional Entropies; NeurIPS'2020
I. Gat, I. Schwartz, A.G Schwing, T. Hazan

- Regularize information of different modalities in multi-modal classifiers

Ensemble of MRR and NDCG models for Visual Dialog; CVPR'2020 Vis&Lang workshop
I. Schwartz

- Winner 2020 visual dialog challenge

Factor Graph Attention; CVPR'2019
I. Schwartz, A.G. Schwing, T. Hazan

- A generic graph-based attention mechanism for any number of utilities
- First place in Visual Dialog challenge on MRR, R1, R5, R10 and Mean metrics

Simple Baseline for Audio-Visual Scene-Aware Dialog; CVPR'2019
I. Schwartz, A.G. Schwing, T. Hazan

- A multimodal solution for scene-aware dialogs over videos with sound
- State-of-the-art model for Audio-Visual Scene-Aware Dialog task

High-Order Attention Models for Visual Question Answering; NIPS'2017
I. Schwartz, A.G. Schwing, T. Hazan

- Introducing unary, pairwise and ternary potentials for multimodal attention
- State-of-the-art model for Multiple-Choice Visual Question Answering task

PROGRAM COMMITTEE	UAI'18; NIPS'18; ICLR'19; CVPR'19; ICML'19; ICCV'19; NeurIPS'19; ICLR'20; CVPR'20; ECCV'20; NeurIPS'20; AAAI'20; CVPR'21
TEACHING EXPERIENCE	• **Lecturer:** Autumn Data Science School with Dr. Kira Radinsky • **Guest Lecturer:** Deep Learning (097200, 236606); Natural Language Processing (097215); Deep Learning for Natural Language Processing (232601) • **Teaching assistant in charge:** Advanced Data Science (236605) • **Teaching assistant in charge:** Theory of Compilation (236360) • **Teaching assistant:** Introduction to Software Design (234122)
CODING SKILLS	• **Languages:** Python, Lua, Java, C++, Web Development • **Deep Learning:** PyTorch, Torch