IDAN SCHWARTZ

idanschwartz@gmail.com | +972-545966654 | github: idansc

EDUCATION

2015-2021: 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-?: Head of Research at Spot by NetApp

I lead the research team at Spot (acquired by NetApp). We develop data-driven algorithms based on the cloud behavior of thousands of customers.

2019-2020: Researcher at Microsoft (Search, Assistant and Intelligence group)

I was a member of the team that developed deep learning models to extract action items from meetings.

2016-2018: Senior Researcher at eBay (Catalog group)

I led successful research on the deduplication of products using NLP and CV solutions, which reduced eBay's overall duplicates from 30% to 12%. Having the pleasure of working with Dr. Ido Guy and Dr. Kira Radinsky.

2011-2015: Software Developer at Intel

Through the use of C++ (Qt) I developed a software framework to assist with chip testing.

2008-2011: Web Developer (IDF service)

As a full-stack web developer, I worked on systems that processed millions of records.

PUBLICATIONS

Ensemble of MRR and NDCG models for Visual Dialog; NAACL'21

I. Schwartz

- Winner visual dialog challenge 2020

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 a multimodal classifier

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; ICCV'21; AAAI'21, NeurIPS'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