Amit Moryossef | Curriculum Vitae

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Education

Postdoctoral Researcher	**University of Zurich, Switzerland**
Researching real-time multilingual sign language translation.	*Jan 2024–Dec 2027*
Advisors: Dr. Mathias Müller, Prof. Sarah Ebling	
Ph.D. in Computer Science (Sign Language Processing)	**Bar-Ilan University, Israel**
Researched automatic sign language processing using artificial intelligence.	*Nov 2019–Dec 2023*
Advisor: Prof. Yoav Goldberg (Graduation *in progress*)	
M.Sc. in Computer Science (Natural Language Processing)	**Bar-Ilan University, Israel**
Researched data-to-text generation and gender-bias in machine translation.	*Oct 2017–Nov 2019*
Advisors: Prof. Yoav Goldberg & Prof. Ido Dagan (Graduated *cum laude*)	
B.Sc. in Computer Science	**Ashkelon Academic College, Israel**
Graduated cum laude during high-school.	*Oct 2013–Jun 2017*

Academic Activity

Selected Publications

- **Including Signed Languages in Natural Language Processing**
  Kayo Yin, Amit Moryossef, Julie Hochgesang, Yoav Goldberg, and Malihe Alikhani
  Long Paper @ ACL 2021 (*Best Theme Paper Award*)
- **Real-Time Sign Language Detection using Human Pose Estimation**
  Amit Moryossef, Ioannis Tsochantaridis, Roee Aharoni, Sarah Ebling, and Srini Narayanan
  Long Paper @ SLRTP 2020, Demo @ ECCV 2020
- **Step-by-Step: Separating Planning from Realization in Neural Data-to-Text Generation**
  Amit Moryossef, Yoav Goldberg and Ido Dagan
  Long paper @ NAACL 2019

Recent Invited Talks

- **Real-time Multilingual Sign Language Processing**
  Jun 2023 @ DCU, Sep 2023 @ SLIN, Oct 2023 @ Zurich NLP, Feb 2024 @ UVA, UvT, MPI
- **Including Signed Languages in Natural Language Processing**
  May 2021 @ ETH, June 2021 @ Sign Lanugage Research Network, Aug 2021 @ SIGTYP
- **Real-Time Sign Language Detection using Human Pose Estimation**
  November 2020 @ Microsoft, February 2021 @ Oxford AI Society

Awards

ACL Outstanding Paper	
For my paper "Considerations for Meaningful Sign Language Machine Translation"	2023
ACL Best Theme Paper	
For my paper "Including Signed Languages in Natural Language Processing"	2021
CLIN Shared Task Winner	
Won the GxG Author Profiling (Cross-Genre Gender) Classification Task	2019
Google Hackathon Winner	
Won the Google Israel IOT Hackathon by creating a self controlled house still used to this day	2014

Work Experience

PowerMyAnalytics   **Orlando, Florida, USA (Remote)**
Chief Technology Officer (CTO)   *Jan 2018–Jan 2023*
Hired and led a remote team of nine developers in building a multi-source analytics platform. The strategic changes I implemented resulted in a consistent tripling of annual revenue over four years consecutively.

Google   **Zurich, Switzerland (Remote - COVID)**
Research Intern / Student Researcher   *May 2020–Mar 2021*
Focused on sign language detection in video conferencing (e.g., Google Meet) and explored the integration of advanced pose estimation techniques for sign language recognition.

Webiks   **Tel-Aviv, Israel**
Machine Learning Engineer   *(Part Time) Sep 2017–Aug 2019*
Contributed to Ansyn, an OSS tool for satellite image analysis. Spearheaded the integration of cutting-edge computer vision models for enhanced satellite imagery interpretation.

FXGlobe   **Tel-Aviv, Israel**
Full Stack Web Developer   *Aug 2015–Nov 2016*
Developed a bespoke CRM solution and spearheaded automation initiatives across various company roles, notably replacing an entire department with an efficient automated system.

Intel-NTU IOX Center   **Taipei, Taiwan**
Research Intern, Mentor: Prof. Yuh-Jye Lee   *Jun 2016–Aug 2016*
Engaged in IoT security research, innovating a machine-learning-based, hands-free authentication system for smart homes by analyzing resident walking patterns. (Compressed learning for time series classification)

Miscellaneuos

- **Aweshome – A Server to Control My House** A house controlled with voice commands and self-controlled using weather data to control the blinds or the AC, motion sensors to save on electricity and facial recognition to open the front door hands free. Recently, added Apple HomeKit support.
- **Duo – Travel Translator** An iOS app that makes your traveling conversations simpler, by providing a real-time translation between any two languages, with a directional UI facing each of the interlocutors.
- **Mailsnitch** A mobile app that traces your emails, letting you know who saw them, and when.
- **Ionic – Open Source Contibution** Helped maintaining the Ionic framework, focusing on RTL support without increasing the bundle size.

Languages

- **English** – Fluent
- **Hebrew** – Native speaker
- **German** – Elementary proficiency (B1)
- **American Sign Language** – Elementary proficiency
- **Israeli Sign Language** – Elementary proficiency

Additional Links

- **All Publications** – `https://scholar.google.co.il/citations?user=Aaj_RBEAAAAJ`
- **YouTube Channel** – `https://www.youtube.com/c/AmitMoryossef`