Hadas Kotek, Ph.D.

Project management, language engineering, ontology, data science

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Experience

Apple

NL Annotation Project Lead   **2019–present**

Siri Understanding, Data Science team

- ▶ Prioritized competing projects; set and maintained schedules for milestone and project completion to align with organizational goals and timelines.

- ▶ Developed new metrics to measure annotator performance, improving accuracy by 10% and throughput by 30%.

- ▶ Led NEU ontology development for 1p & 3p app developers.

Facilitated cross-functional collaboration with data scientists, ML modeling engineers, platform developers, annotation operations admins, vendor project managers, and annotators.

Contributed to R&D projects, design and deployment of all Siri Understanding annotation projects.

Created guidelines and trainings for Siri and Siri International.

Faculty member in Linguistics

Yale University   **2016–2017, 2018–2019**

New York University   **2017–2018**

McGill University   **2014–2016**

- ▶ Led research and teaching activities at R1 universities.

- ▶ Led 25-person team in large-scale data collection project.

- ▶ Advised PhD dissertations, graduate Qualifying Papers, and undergraduate theses.

Collected linguistic data and developed cutting-edge linguistic theories, resulting in: 1 monograph (MIT Press); 1 edited volume; >20 published papers; >60 presentations; 10 grants and awards.

Created teaching materials; taught lectures and seminars; managed Teaching Assistant teams (14 courses in syntax, semantics, & experimental linguistics; over 500 enrolled students.)

Co-organized 6 intl conferences with hundreds of attendees.

Skills

Project management

Cross-functional collaboration
Personnel & budget management
Written & oral presentation

Data science

Experiment design
Data sampling, processing, and visualization
Statistical analysis

Ontology

Ontology design
Guideline creation

NLP

Named Entity Understanding
Part of Speech Tagging
Constituency Parsing
Discourse-Sensitive Parsing
Multi-turn conversations

Technology

Python (pandas, numpy, NLTK)

R (tidyverse, dplyr, ggplot2, lme4, nlme)

Markdown	Git
LaTeX	HTML (basic)
regex	SQL (basic)

Research

See academic CV

Graduate student researcher

Massachusetts Institute of Technology	**2009–2014**
Tel-Aviv University	**2008–2009**
Center for General Linguistics, Berlin	**2007–2008**

- ▶ Synthesized large amounts of natural language data from several typologically unrelated languages.
- ▶ Designed and implemented psycho- and neorolinguistic, processing, acquisition, & grammaticality judgment experiments.
- ▶ Created data visualization and analysis scripts.

Led multiple research projects; Served as a teaching Assistant; Contributed to ongoing department life.

Led outreach activities, teaching linguistics to a general audience.

Trained and supervised undergraduate research assistants.

16 papers, 37 presentations, 11 grants and awards.

Co-creator of *Turktools* at MIT   **2012–2013**

- ▶ Coded HTML and R scripts for data visualization & analysis.
- ▶ Designed and contributed to programming of Python scripts.

Free toolkit for implementation and analysis of behavioral language experiments on Amazon Mechanical Turk.

Machine Learning Coordinator

Ontology Ltd, Tel-Aviv, Israel   **2005–2006**

Built a knowledge graph for machine learning software based on a multilingual classification algorithm.

Contributed to ontology design.

Collected, processed, and annotated Spanish datasets.

Translator

Israeli Prime Minister's Office   **2001–2003**

Arabic-Hebrew translator: audio, text, and video sources.

Contributed to wartime automatic Machine Translation software.

Education

PhD, Linguistics	2014
Massachusetts Institute of Technology	
BA, Linguistics	2007
Tel-Aviv University	

Other relevant coursework:

- ○ Intro to SQL for Data Science (DataCamp)
- ○ Learn Python 2 (CodeAcademy)
- ○ Infinitesimal Calculus 1+2, Discrete Math
- ○ Statistical Analysis, Research Methods
- ○ AP Computer Science, Math, Physics, English, Arabic

Languages

Hebrew	native
English	native
German	fluent, ZOP certificate
Arabic	conversational
Spanish	conversational
Japanese	beginner
French	beginner
Kaqchikel (Mayan)	fieldwork
Chuj (Mayan)	fieldwork
Tibetan	fieldwork