

Michael Hassid

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CURRENT

Hebrew University of Jerusalem – PhD Candidate in Computer Science (third year)

Meta AI (FAIR) – Research Assistant

EDUCATION

2022 - Present: Hebrew University of Jerusalem – PhD in CS

- Research Advisors: Prof. Roy Schwartz and Dr. Yossi Adi
- Main research topics:
 - LLM reasoning and planning for math and code generation
 - Efficient mechanisms for LLMs
 - Speech language models (SpeechLMs)
- Publication presented in the second page

2020 - 2022: Hebrew University of Jerusalem – MSc. in CS (excellence program)

- Final GPA: 98.19
- Honors: cum laude
- Research Advisor: Prof. Roy Schwartz
- Main research topic: Attention Mechanisms for NLP

2016 - 2019: Hebrew University of Jerusalem – BSc. in CS (excellence program)

- Honors: summa cum laude
- Final GPA: 97.22

EXPERIENCE

2022 - Present: Meta AI, FAIR – Research Assistant (PhD program)

- Research topics:
 - LLM Reasoning in semantic space
 - Code generation with LLMs
 - Speech language models (SpeechLMs)

2023 - 2024: Hebrew University of Jerusalem – Lecturer

- Lecturer of the “Advanced Natural Language Processing (ANLP)” course

2020 - 2022: Google, Cerebra – Research Intern (Full & Part time internship)

- ML driven solutions for real life tasks (mainly research, some production work):
 - Main research: NLP, TTS
 - Research publication and approved patent

2019 - 2020: Google, Search Console – Software Engineer (Part time internship)

- SAN Insights Provider: Generating insights for Search Console users
 - Project is deployed in Search Console

2017 - 2019: Hebrew University of Jerusalem – Teacher Assistant

- Teacher Assistant; “Introduction To Computer Science” course

AWARDS

Meta AI- PhD excellence program (PhD)
Graduated **cum laude** (MSc.)

Computer Science excellence program of
HUJI (MSc.)

Ulman scholarship for excellence students
(MSc.)

Graduated **summa cum laude** (BSc.)

Computer Science excellence program of
HUJI (BSc.)

Dean's List:

2017 (Bsc.), 2018 (Bsc.), 2020 (MSc.)

Dean's Award:

2018 (Bsc.), 2020 (Msc.)

SKILLS

Research & Work experience with ML
methods (specifically Deep Learning).

Deep understanding of LLMs (from high
level to code)

Experience with Deep Learning
frameworks:

PyTorch, TensorFlow and Jax.

MORE

Psychometric Grade: **726**

Matriculation Examination (“Bagrut”)

GPA: **114.3**

HOBBIES

Spoken Word poet (Poetry Slam) – search
on YouTube – “מיכאל חסיד”.

References available upon request.

PUBLICATIONS ([Google Scholar](#))

M. Hassid, T. Remez, ..., R. Schwartz, Y. Adi

Textually Pretrained Speech Language Models

Advances in Neural Information Processing Systems 2023 (NeurIPS 2023). [Arxiv](#)

M. Hassid*, T. Remez*, J. Gehring, R. Schwartz, Y. Adi

The Larger the Better? Improved LLM Code-Generation via Budget Reallocation

Conference On Language Models 2024 (COLM 2024). [Arxiv](#)

M. Oren*, M. Hassid*, N. Yarden, Y. Adi, R. Schwartz

Transformers are Multi-State Rnns

Empirical Methods in NLP 2024 (EMNLP 2024). [Arxiv](#)

M. Hassid, G. Synnaeve, Y. Adi, R. Schwartz

Don't Overthink it. Preferring Shorter Thinking Chains for Improved LLM Reasoning

Under Review. [Arxiv](#)

M. Hassid, H. Peng, D. Rotem, J. Kasai, I. Montero, N. Smith, R. Schwartz

How Much Does Attention Actually Attend? Questioning the Importance of Attention in Pretrained Transformers

Findings of Empirical Methods in NLP 2022 (EMNLP 2022). [Arxiv](#)

M. Hassid, M. Tadmor, B. Shillingford, M. Wang, Y. Jia, T. Remez.

More than Words: In-the-Wild Visually-Driven Prosody for Text-to-Speech

Conference on Computer Vision and Pattern Recognition 2022 (CVPR 2022). [Arxiv](#)

D. Rotem, M. Hassid, J. Mamou, R. Schwartz

Finding the sweet spot: Analysis and improvement of adaptive inference in low resource settings

Association for Computational Linguistics 2023 (ACL 2023). [Arxiv](#)

G. Maimon, M. Hassid, A. Roth, Y. Adi

Scaling analysis of interleaved speech-text language models

Under Review. [Arxiv](#)

T. Ghattas, M. Hassid, R. Schwartz

On Pruning State-Space LLMs

Under Review. [Arxiv](#)

S. Levy, N. Mazor, L. Shalmon, M. Hassid, G. Stanovsky

More Documents, Same Length: Isolating the Challenge of Multiple Documents in RAG

Under Review. [Arxiv](#)

TA. Nguyen, ..., M. Hassid, ..., E. Dupoux

Expresso: A benchmark and analysis of discrete expressive speech resynthesis

Interspeech 2023 (Interspeech 2023). [Arxiv](#)

M. Treviso, ..., M. Hassid, ..., R. Schwartz

Efficient methods for natural language processing: a survey

Transactions of the Association for Computational Linguistics (TACL). [Arxiv](#)

M. Hassid, S. Caduri, N. Bar, D. Cohen, B. Schlesinger, M. Tadmor

Method and system for text-to-speech synthesis of streaming text

WO Patent 2,022,093,192