# Michael Hassid

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## CURRENT

**Hebrew University of Jerusalem** – PhD *Candidate in Computer Science (fourth 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 Assistent*
- 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**)
KLA scholarship for excellence (**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 Langiage 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**
Conference of Language Models 2025 **(COLM 2025)**. [Arxiv](#)

T. Ghattas, **M. Hassid**, R. Schwartz
**On Pruning State-Space LLMs**
Empirical Methods in NLP 2025 **(EMNLP 2025)**. [Arxiv](#)

S. Levy, N. Mazor, L. Shalmon, **M. Hassid**, G. Stanovsky
**More Documents, Same Length: Isolating the Challenge of Multiple Documents in RAG**
Findings of Empirical Methods in NLP 2025 **(EMNLP 2025)**. [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