AI Researcher and Technologist

Gilad D. Landau

AI Researcher

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EXPERIENCE

D.Phil at the PNPL Speech Decoding Lab, Oxford University

2024 - Present

- Researching Semantic Decoding from MEG brain data.

Senior AI Researcher and Tech Lead

Stealth Mode Startup (Non-Invasive Brain Interfaces)

2023 - 2024

- Researching Deep Learning models for EEG decoding.

Senior AI Researcher and Tech Lead

Snap Inc.

2020 - 2023

- Led the company's Conversational AI efforts, generating technological roadmaps and strategic planning.
- Deployed Conversational AI models at scale for Snap's 340M user base.
- Developed several prototypes for conversational AI using T5, LLM, Bert and other SOTA NLP models.
- Combined ViT(Vision Transformer) and ASR model(Conformer) for multimodal conversational experiences.
- Authored a Patent for conversational AI technology.
- Orchestrated, led and mentored a new conversational/NLP group.
- Led and took part in many research-centered projects including presentations in academic conferences, meetups and Snap's AI knowledge center.

Data Scientist – Deep Learning Tech Lead

Windward (Maritime)

2018 - 2020

- Complex Exploratory Data Analysis assisted by innovative clustering solutions.
- Research to Deployment of XGBoost models for the maritime domain.
- Research to Deployment of state of the art Deep Learning Time Series model for maritime events, world's first model in this domain.

Data Scientist – Led the company AI operation

Clicktale (Web Analytics)

2015 - 2018

- Predictive Models research using Pytorch/Tensorflow and custom Deep Learning architectures.
- Design and training of classification models for users' experience metrics.
- Developed solutions for harnessing AI models to deliver "automatic insights" for customer sites' analysis.

PUBLICATIONS

- **The 2025 PNPL Competition: Speech Detection and Phoneme Classification in the LibriBrain Dataset** *Gilad Landau, Miran Özdogan, Gereon Elvers, Francesco Mantegna, Pratik Somaiya, Dulhan Jayalath, Luisa Kurth, Teyun Kwon, Brendan Shillingford, Greg Farquhar, Minqi Jiang, Karim Jerbi, Hamza Abdelhedi, Yorguin Mantilla Ramos, Caglar Gulcehre, Mark Woolrich, Natalie Voets, Oiwi Parker Jones*

- **LibriBrain: Over 50 Hours of Within-Subject MEG to Improve Speech Decoding Methods at Scale**. *Miran Özdogan, Gilad Landau, Gereon Elvers, Dulhan Jayalath, Pratik Somaiya, Francesco Mantegna, Mark Woolrich, Oiwi Parker Jones*

- **The Brain's Bitter Lesson: Scaling Speech Decoding With Self-Supervised Learning** *Dulhan Jayalath, Gilad Landau, Brendan Shillingford, Mark Woolrich, Oiwi Parker Jones*

- **Unlocking Non-Invasive Brain-to-Text** *Dulhan Jayalath, Gilad Landau, Oiwi Parker Jones*

PATENTS

- **Conversation guided augmented reality experience.** *Jacckie Assa, Alan Bekker, Gilad Landau,* Patent#: US11983462B2

EDUCATION

- AI D.Phil in Oxford University
- MA and Thesis in Philosophy and Cognition from TAU

TOOLS & TECHNOLOGIES

AI, LLM, Vision, NLP, PyTorch, TensorFlow, Python, Transformers, Time Series Analysis, C++

HOBBIES

- Reading
- Playing the piano

LANGUAGES

- Hebrew (fluent)
- English (fluent)
- French (basic level)