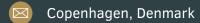


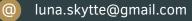
Luna Skytte Hansen

Engineering

Neuroscience

Data Science







About me

Highly motivated and results-oriented professional with a combined background in Human-centered AI Engineering (M.Sc., DTU) and Biomedical Engineering (B.Sc., DTU).

Leveraging expertise in health technology and data science, I have successfully contributed to clinical studies, medical device development, regulatory compliance, and product commercialization.

WORK EXPERIENCE

- 2024 Now Data Scientist at Laerdal Copenhagen
 Responsible for transforming data into business and product insights to continuously improve user experience.
 - 2021 24 Scientific Research Manager at OptoCeutics ApS

 Team manager responsible for supervising fellow researchers, and projects. Experienced in conducting experiments, collecting and analyzing data within neuroscience and Alzheimer's Disease.
 - 2019 21 **EEG Specialist at OptoCeutics ApS**Student assistant in charge of EEG research. Experience with writing and executing experimental protocols, data analysis, and statistics.
 - 2020 Student programmer. DTU Dept. of Applied Mathematics and Computer Science
 In charge of programming cognitive paradigms. Experience
 - 2017-20 MR assistant. Dept. Neurology and Neurobiology Research Unit (NRU), Rigshospitalet.

Assistance during research scans. Experience with MRI/fMRI procedures and patient care.

with PsychoPy, experimental design, and data validation.

PUBLICATIONS

2024 Light-Based Gamma Entrainment with Novel Invisible Spectral Flicker Stimuli

Hansen, Luna S. et al., Scientific Reports, Nature 2024; https://www.nature.com/articles/s41598-024-75448-4

2024 Rationale and design of a double-blinded, randomized placebo-controlled trial of 40 Hz light neurostimulation therapy for depression (FELIX)

Sakalauskaitė, Laura et al., Ann Med. 2024 May; https://doi.org/10.1080/07853890.2024.2354852

2023 Re-evaluating the choice of gamma stimulation frequency for potential treatment of Alzheimer's disease: Novel invisible spectral flicker evokes gamma responses at various frequencies.

Henney, Mark A. et al., *Alzheimer's & Dementia*, 19. (2023) https://doi.org/10.1002/alz.071897

2022 Novel Invisible Spectral Flicker Induces 40 Hz Neural Entrainment with Similar Spatial Distribution as 40 Hz Stroboscopic Light

Agger, Mikkel P. et al., J. Alzheimers Dis. 2022 https://doi.org/10.3233/jad-220081

2020 40 Hz invisible spectral flicker and its potential use in Alzheimer's light therapy treatment

Carstensen, Marcus S. et al., *Proc. SPIE 11221, Mechanisms of Photobiomodulation Therapy XV (2020)* https://doi.org/10.1117/12.2544338



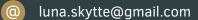
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EDUCATION

2018–2021 M.Sc. in Human-Centered Artificial Intelligence Enginee-

ring. Technical University of Denmark (DTU)

2014-17 B.Sc. in Biomedical engineering. Technical University of

Denmark (DTU) and University of Copenhagen (UCPH)

PROJECT WORK

Master Thesis (2020)

Title Analysis of a Large-scale Smartphone dataset: Behavioral

Factors Affecting Heart-Rate

Technical University of Denmark.

Supervisors Prof. Sune Lehmann and Assistant Prof. Laura Alessandretti

Institute Department of Applied Mathematics and Computer Science,

Description The project focused on analysing and exploring the trends

and correlation in a smartphone-based large-scale dataset

including Heart Rate, sleep, motion, and app usage.

Bachelor Thesis (2017)

Title: Signal processing and analysis for interview speech data.

Supervisors: Prof. Lars K. Hansen, Post.Doc. Nikolaj Bak & PhD. stud. Mar-

tin Axelsen.

Institute: Psychiatric Center Glostrup, & Technical University of Den-

mark.

Description: The project explored the processing and analysis of spe-

ech data from video recordings of schizophrenic patients to

extract relevant audio features.

TECHNICAL TOOLBOX

Experienced Python, Matlab, Rstudio, MS Office, LATEX, Android, Google,

IOS, git, PsychoPy, Jira, Figma, Meta Business, Greenlight Guru, SQL (Postgresql), PySpark, Spark, Jupyter Notebook, SciPy, Pandas, Seaborn, MNE, NetworkX, Ime4, Unix, Data-

bricks, Power Bi.

Knowledge Java, Java Android, JavaScript, Flutter, Comsol, Simulink,

Google Analytics, TensorFlow, PyTorch, Amazon Web Service, Adobe (Mainly XD), WordPress, Looker Studio (Google).

LANGUAGE

Danish Native

English Fluent in writing and speech

OTHER

2023-now Member of homeowners' association

Insight in to property management, budgeting, communica-

tion and collaboration.

2016-2021 Chairman of dormitory and member of the council

Experience with communication, organization, administra-

tion, leadership and conflict management.

2019 Tohoku Univesity Engineering Summer Program (Japan)

Experience studying abroad and knowledge on robotics.