

AHNJILI ZHUPARRIS, PHD

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Senior research scientist and AI engineer with end-to-end experience developing and deploying NLP, computer vision, and generative AI systems in production. Specializing in AI-enabled research on media narratives, cultural consumption, and large-scale behavioral data. Computational artist examining the societal impacts of automated decision-making.

SKILLS & QUALIFICATIONS

Programming:	Python, R, PySpark, SQL, Javascript, C++
ML & Analytics:	PyTorch, TensorFlow, Sklearn, Computer Vision, Data Mining, Speech Synthesis
Generative AI:	GANs, Diffusion Models, LLMs, ChatGPT, ElevenLabs, RVC, Stable Diffusion, RunwayML, YOLO
Cloud:	Azure, Google Cloud Platform (GCP), Heroku, Amazon Web Services (AWS)
Languages:	English (Native), Mandarin (B1), Dutch (B1)

WORK EXPERIENCE

Harmony Labs <i>Senior Research Scientist</i>	Feb 2024 - Present
> AI-Enabled Media Research:	Lead statistically rigorous research on media narratives and cultural consumption at scale, applying NLP methods (embedding-based clustering, topic detection, network analysis) and statistical modeling to extract actionable insights from large, complex datasets.
> Stakeholder Communication:	Translate complex analyses into clear narratives, briefs, and presentations for partners and decision-makers.
RealFaceValue <i>AI Engineer</i>	Sep 2023 - Feb 2024
> Generative Model Dev:	Designed and refined prompts, GAN models, and diffusion models for automated image generation and content creation.
> Production Deployment:	Collaborated with backend and frontend teams to integrate AI models into production, ensuring seamless user interaction.
Centre for Human Drug Research <i>Lead Data Scientist</i>	Sep 2019 - Sep 2023
> Digital Biomarker Dev:	Built classification and severity estimation models using smartphone data (text, audio, voice, location), wearables, and electronic Patient Reported Outcomes for clinical trial-at-home studies.
> Literature Reviews:	Conducted comprehensive reviews on disease classification and digital health technologies to inform research direction.
Artificial Nouveau Studio <i>Freelance AI Engineer & Science Communicator</i>	Jan 2018 - Present
> Custom AI Development:	Built analytical and generative algorithms for creative voice cloning and image generation applications.
> Workshops & Advocacy:	Designed and delivered workshops on generative AI, computer vision, and ML. Presented on ML ethics as panelist and juror.

EDUCATION

PhD Leiden University, Netherlands <i>Doctor of Philosophy in Medicine (focusing on AI for health)</i>	2020 - 2024
MSc Radboud University Nijmegen, Netherlands <i>Research Master's Degree in Cognitive Neuroscience</i>	2015 - 2017
BSc University of Edinburgh, United Kingdom <i>Biomedical Bachelor's Degree with Honours in Neuroscience</i>	2011 - 2015

AWARDS & FUNDING

Processing Foundation Fellowship Screen-to-Soundscape: an open-source framework reimagining screen readers as immersive soundscapes.	June 2024
Mozilla Creative Media Awards Future Wake: an interactive website using AI to analyze fatal police encounter data in the U.S. and predict future incidents.	Dec 2020

SELECTED PUBLICATIONS

Doctorate Thesis: Zhuparris, A. (2024). Development of machine learning-derived mHealth composite biomarkers for trial@home clinical trials.

Zhuparris et al., Machine Learning Techniques for Developing Remotely Monitored Central Nervous System Biomarkers Using Wearable Sensors: A Narrative Literature Review. *Sensors* 2023, 23, 5243.

REFERENCES

Prof. Dr. Wessel Kraaij Leiden Institute for Advanced Computer Science w.kraaij@liacs.leidenuniv.nl	Dr. Robert-Jan Doll Centre for Human Drug Research (CHDR) rjdoll@chdr.nl	Prof. Dr. Adam Winstock Global Drug Survey, UK adam@globaldrugsurvey.com
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