AHNJILI ZHUPARRIS, PHD

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CAREER SUMMARY

Ahnjili ZhuParris, PhD is a senior research scientist and AI engineer specializing in statistically rigorous, AI-enabled research on media narratives, cultural consumption, and large-scale behavioral data. She brings end-to-end experience developing and deploying NLP, computer vision, and generative AI systems (including diffusion and GAN-based models) in production, partnering closely with engineering teams and external stakeholders to translate complex analysis into decision-ready insights. Previously, she led data science research in digital health, building multimodal classification and treatment-effect detection models using smartphone, wearable, and patient-reported data. Alongside her technical practice, she is a computational artist and science communicator whose work examines the societal impacts of automated decision-making and algorithmic violence across arts, nonprofit, and industry contexts.

SKILLS & QUALIFICATIONS

Programming Languages: Python, R, Pyspark, SQL, Javascript, C++
Analytics: Machine Learning & Deep Learning (using PyTorch, TensorFlow, & Sklearn), Generative AI (GANs, diffusion models, LLMs), Computer Vision, Data Mining, Speech Synthesis
Developed applications with: ChatGPT, ElevenLabs, RVC, StableDiffusion, RunwayML, YOLO
Cloud Platforms: Azure, Google Cloud Platform (GCP), Heroku, Amazon Web Services (AWS)
Languages: English (Native Language), Mandarin (B1), Dutch (B1)
Website: www.artificialnouveau.com
Git: https://github.com/artificialnouveau

WORK EXPERIENCE

HARMONY LABS   **February 2024 – Ongoing**
Senior Research Scientist
  - **Design and lead statistically rigorous, AI-enabled research on media narratives and cultural consumption at scale**: Applying NLP and machine-learning methods (e.g., embedding-based clustering/classification, topic/narrative detection, network analysis) and robust statistical modeling to generate defensible, decision-grade insights from large, messy datasets.
  - **Deliver partner-facing insights and recommendations that drive action, translating complex analyses into clear narratives, briefs, and presentations**

REALFACEVALUE   **September 2023 – February 2024**
Artificial Intelligence Engineer
  - **Prompt Engineering, GAN Models, and Diffusion Models:** Experience in designing and refining prompts for content creation. Skilled in applying GAN and diffusion models to generate images.
  - **Created Production Ready Models:** Worked closely with backend and frontend teams to integrate AI models into production to ensure seamless user interaction with creative tools.

CENTRE FOR HUMAN DRUG RESEARCH   **September 2019 – September 2023**
Lead Data Scientist

- ➢ **Disease Classification and Treatment Effects Detection:** Conducted research on classifying diseases, estimating disease severity, and detecting treatment effects using data from smartphones (consisting of text, audio, voice and location data), wearables, and electronic Patient Reported Outcomes (ePro).
- ➢ **Comprehensive Literature Reviews:** Performed extensive reviews to gather relevant insights and remain current with advancements in disease classification and digital health technologies.

ARTIFICIAL NOUVEAU STUDIO   January 2018 – Ongoing
Freelance AI engineer and Science Communicator for the Arts & Design Sector
- ➢ **Custom Software Development:** Created specialized analytical and generative algorithms for innovative applications in creative voice cloning and image generation.
- ➢ **Machine Learning and Ethics Advocacy:** Presented talks and participated as a panelist and juror at various events, contributing to discussions at the intersection of machine learning and ethics.
- ➢ **Workshop Design and Delivery:** Designed and led workshops on data mining, generative AI, computer vision, and machine learning, offering practical insights and hands-on learning experiences for participants.

EDUCATION

PhD   LEIDEN UNIVERSITY, NETHERLANDS   2020 - 2024
Doctor of Philosophy (PhD) in Medicine (focusing on: AI for health)

MSc   RADBOUD UNIVERSITY NIJMEGEN, NETHERLANDS   2015 - 2017
Research Master's Degree in Cognitive Neuroscience

BSc   UNIVERSITY OF EDINBURGH, UNITED KINGDOM   2011 - 2015
Biomedical Bachelor's Degree with Honours in Neuroscience

AWARDS & FUNDING

PROCESSING FOUNDATION FELLOWSHIP   JUNE 2024
The Screen-to-Soundscape project integrates the principles of digital accessibility into an innovative, open-source framework. This project reimagines screen readers as immersive soundscapes, promoting inclusivity and enabling the creative exploration of web content.

MOZILLA CREATIVE MEDIA AWARDS   DECEMBER 2020
Future Wake, an interactive website, received the Mozilla 2021 Creative Media Award. The project uses AI to analyze data relating to fatal police encounters in the U.S. and predict future incidents.

REFERENCES

PROF. DR. WESSEL KRAAIJ	DR. ROBERT-JAN DOLL	PROF. DR. ADAM WINSTOCK
Leiden Institute for Advanced Computer Science, Netherlands	Centre for Human Drug Research (CHDR), Netherlands	Global Drug Survey, UK
w.kraaij@liacs.leidenuniv.nl	rjdoll@chdr.nl	adam@globaldrugsurvey.com

JOURNAL PUBLICATIONS (click here for more publications)

Doctorate Thesis: Zhuparris, A. (2024, June 13). Development of machine learning: derived mhealth composite biomarkers for trial@home clinical trials. https://tinyurl.com/ahnjilithesis

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. https://doi.org/10.3390/s23115243