Dany Mukesha

Curriculum Vitae

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Education

Sept. 2023 – Exp.July 2026	**PhD, Bioinformatics**, *Université Côte d'Azur*, Nice, France
March 2020 – July 2023	**MSc, Bioinformatics**, *University of Rome Tor Vergata*, Rome, Italy
Nov. 2016 – Oct. 2019	**BSc, Bioinformatics**, *Sapienza Università di Roma*, Rome, Italy

Experience

March 2022 – Sept. 2023	**Bioinformatician**, *Wayne State University*, Detroit, Michigan, USA Gene expression analysis of environmental toxins on cardiovascular health.
Jan 2021 – Sept. 2023	**Software Engineer**, *Accenture Spa - Catenate Group*, Rome, Italy DevOps, Databases and Software development.
Dec. 2020 – August 2021	**Bioinformatician**, *The University of Manchester*, Manchester, UK Integrated epigenetics & GWAS to map Rheumatoid Arthritis risk loci.
July 2020 – Dec. 2020	**Bioinformatician**, *Policlinico Agostino Gemelli IRCCS*, Rome, Italy Transcriptomic profiling of ependymoma tumors (published in IJMS).

Selected Publications

Recent Publications

- Mukesha D, Sarter M, Dubray M, et al. *Targeted serum metabolomic profiling and machine learning approach in Alzheimer's disease using the Alzheimer's disease diagnostics clinical study (ADDIA) cohort.* Journal of Alzheimer's Disease. 2025. `https://doi.org/10.1177/13872877251378653`
- Mukesha D, Sarter M, Dubray M, et al. *Metabolomic Signatures and Machine Learning Models for Distinguishing Alzheimer's Disease and Dementia with Lewy Bodies.* Alzheimer's Association International Conference (AAIC) 2025. `https://alz.confex.com/alz/2025/meetingapp.cgi/Paper/98539`
- Mukesha D. *Scalable and Interpretable Genetic Algorithm Framework for High-Throughput Genomic Data.* Zenodo. 2024. `https://doi.org/10.5281/zenodo.15801072`
- Servidei T, Meco D, Martini M, et al. *The BET Inhibitor OTX015 Exhibits In Vitro and In Vivo Antitumor Activity in Pediatric Ependymoma Stem Cell Models.* Int J Mol Sci. 2021;22(4):1877. `https://doi.org/10.3390/ijms22041877`

Conferences & Awards

- AD/PD 2026 (Copenhagen, Denmark) – Talk: "Lipid, Dopamine, And Amino Acid Derivatives As Early Urinary Biomarkers Differentiating Alzheimer's Disease From Lewy Body Dementia."
- AAIC 2025 (Toronto, Canada) – Poster: "Integrating *APOE* Genotyping and Serum Metabolomics with Machine Learning to Distinguish Alzheimer's Disease and Dementia with Lewy Bodies."
- AD/PD 2025 (Vienna, Austria), AD/PD 2024 (Lisbon, Portugal) – Posters
- Marie Skłodowska-Curie PhD Scholarship (EU, 2023–2026)
- LazioDisco Scholarship for Academic Merit (2016–2022)

Skills

Bioinformatics	Genomics, GWAS, gene networks, pipelines (Nextflow, Slurm)
ML & Stats	Regression, PCA/ICA, Clustering, Bayesian methods, Random Forest, Deep Learning
Programming	Python, R, C++, Bash, Java, REST APIs
DevOps	Docker, Git, Jenkins, Kubernetes, Terraform, Linux, LDAP
Languages	English, Italian, French