

Pavanakumar Mohanamuraly currently serves as a Senior Researcher at the ALGO Team, CERFACS, Toulouse, France. He has extensive experience in CAD-based Aerodynamics Shape Optimisation, adjoint sensitivity analysis, Machine Learning, and high-performance computing.

He holds a PhD in Aerospace Engineering from Queen Mary University of London and an MS in Aerospace Engineering from Pennsylvania State University. His career includes roles at Integrated Test Range, DRDO, Balasore, Honeywell Technology Solutions, Bangalore, National Aerospace Laboratories, India, Airbus Group, Bangalore.

As a Marie Curie Early Stage Researcher (PhD) at QMUL, Pavanakumar had extensive training and produced algorithms and tools for aerodynamic shape optimisation and algorithmic differentiation of parallel CFD codes. His work has significantly contributed to the advancement of computational methods in CERFACS, particularly in the areas of hybrid CFD and machine learning and parallel adaptive mesh refinement and load-balancing problems.

For a short course in Automatic Differentiation, Pavanakumar brings a wealth of knowledge and practical experience in algorithmic differentiation applied to parallel codes, making him a valuable instructor for professionals looking to enhance their skills in this domain.