

AHMED BASIL KOTILINGAL

PERSONAL DATA

PLACE AND DATE OF BIRTH: Kerala, India | 03 January 1994
PRESENT ADDRESS: Institut Jean Le Rond d'Alembert,
Sorbonne Université
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PRESENT POSITION

MAY 2019 - CURRENT | PhD student at INSTITUT JEAN LE ROND D'ALEMBERT,
Sorbonne Université
Grant/Project: MSCA-ITN/UCOM
Advisor: Prof. STÉPHANE ZALESKI

RESEARCH EXPERIENCE

MAY 2019 - CURRENT | PhD student at INSTITUT JEAN LE ROND D'ALEMBERT,
Sorbonne Université
Cavitation in blood vessel and drug delivery
Development of multi-material numerical solver to simulate cavitation taking care of the deformable membrane and study targeted drug delivery.

JULY 2018-DECEMBER 2018 | Project Assistant at DEPARTMENT OF MECHANICAL ENGINEERING,
Indian Institute of Science
Parallelisation and Validation of Multiphase Solver
In-house BAMR-based Multiphase Solver is parallelised using MPI library.

JUNE 2017-JUNE 2018 | Master's Project at DEPARTMENT OF MECHANICAL ENGINEERING,
Indian Institute of Science
Block Adaptive Mesh Refinement (BAMR) based Multiphase Flow Solver
A Block Adaptive Mesh Refinement(BAMR) based Solver for general class of incompressible multiphase problems is developed in C++. A Multigrid Solver is developed in-house for solving Poisson equation. Interface-Capturing Solvers based on Geometric-VOF and Levelset are also developed.

EDUCATION

- JULY 2018 Master of Technology in MECHANICAL ENGINEERING,
Indian Institute of Science, Bangalore, India
Thesis: "Block Adaptive Mesh Refinement (BAMR) based
Multiphase Flow Solver" | Advisor: Prof. GAURAV TOMAR
- JULY 2016 Bachelor of Technology in MECHANICAL ENGINEERING,
National Institute of Technology Karnataka, Surathkal, India
Thesis: "Aerodynamic Analysis of a
Tractor-Trailer Truck" | Advisor: VIJAYKUMAR HINDASAGERI

SCHOLARSHIPS AND CERTIFICATES

- SEPT. 2016 Secured All India Rank 83 in Graduate Aptitude Test in Engineering (GATE) 2016
in Mechanical Engineering
- MAY 2019 Marie Curie Actions fellowship awarded by European Commission