

Dr.C.HARIHARAN M.Sc., M.Phil., Ph.D.,

Assistant Professor of Physics

PG and Research Department of Physics
Jamal Mohamed College (Autonomous)
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OBJECTIVE

Seeking a challenging and rewarding position in a progressive organization with an environment where in my initiative for personal and professional development will contribute to achieve the goals of the organization.

EDUCATION AND CREDENTIALS

Degree	Subject / Specialization	University	Month & Year	Percentage of Marks
Ph.D	Physics (Nuclear Physics)	Urumu Dhanalakshmi College, Bharathidasan University, Trichy.	October '2012'	Commended
M.Phil	Physics (Nuclear Physics)	Urumu Dhanalakshmi College, Bharathidasan University, Trichy.	February '2005'	85.60
M.Sc	Physics (Electronics)	St. Joseph's College, Bharathidasan University, Trichy.	April '2003'	75.30
B.Sc	Physics	St. Joseph's College, Bharathidasan University, Trichy.	April '2001'	75.42

ACADEMIC PROJECTS

- **Ph.D:** Nucelon Structure Functions and Neutrino-Nucleon Interaction Cross Section by Statistical Model
- **M.Phil:** Neutrino Nucleon scattering at Ultra High Energies
- **M.Sc:** Utilization of Solar Energy to produce Pollution Free Fuel Hydrogen

ACHIEVEMENT

- Received **Fr.G.A.Savariraj Silver Jubilee Gold Medal** for outstanding academic performance in M.Sc Physics, 2003.

FIELD OF RESEARCH

- Phenomenological Nuclear Physics
- Solar Energy
- Material Science

PROFESSIONAL EXPERIENCE (19 Years)

Organisation : Jamal Mohamed College (Autonomous), Tiruchirappalli

Designation : Assistant Professor of Physics

Period : From Dec 2013 to Till date

Organisation : J.J College of Engineering and Technology, Trichy

Designation : Assistant Professor (Sr.G) of Physics

Period : From Sep 2007 to Nov 2013

Organisation : Subbalakshmi Lakshmi pathy College of Science, Madurai

Designation : Lecturer in Physics

Period : From Aug 2006 to May 2007

Organisation : Karpagam Arts and Science College, Coimbatore.

Designation : Lecturer in Physics

Period : From July 2004 to July 2006

GUIDESHIP

M.Phil : Awarded: 16 Pursuing: ---

Ph.D : Awarded: 01 Pursuing: 01

ORIENTATION AND REFRESHER PROGRAMMES

Course : Orientation Course

University : UGC- HRDC, Bharathidasan University, Tiruchirappalli

Period : From 08.07.2015 to 04.08.2015

Course : Refresher Course in Environmental Studies (ID)

University : UGC – HRDC, Bharathiar University, Coimbatore

Period : From 04.07.2018 to 24.07.2018

Course : Refresher Course in Physics (Subject)

University : UGC – HRDC, Madurai Kamaraj University, Madurai

Period : From 10.11.2021 to 23.11.2021

Course : Refresher Course in Advanced Research Methodology (ID)

University : TLC, Ramanujan College, University of Delhi, New Delhi

Period : From 22.12.2022 to 05.01.2023

PROFESSIONAL ACTIVITIES

1. Deputy Co-ordinator, Jamal Mohamed College Reach Out Programme from June 2022 onwards
2. Staff Incharge for Astro lab activities form June 2021 onwards.

3. Physics Association Vice President during the academic year 2018-2019.
4. Department Test Incharge during the academic years, 2014-2015, 2015-2016 , 2020-2021, 2021-2022 and 2022-2023.

MEMBERSHIPS / ORGANIZATION ASSOCIATED

- Life Member, Indian Society of Systems for Science and Engineering (ISSE) (ID: LM04488)

PAPERS PRESENTED

- Presented a paper on “Design Synthesis, DFT and Molecular Docking Studies of 2-{4,5-BIS[E-2-(4Chlorophenyl) ethenyl]} – 1H – Imidazole – 2 YL] Phenol as a potential antimicrobial agent” in the two days National Conference on AI&ML in Aerospace & Biomedical Engineering Applications organised by ACS College of Engineering, Bengaluru (June 2023).
- Presented a paper on “Empirical Model for Water Production for a Single Slope Wick-Type Solar Still in Four Coastal Areas in India” in an International Conference on Recent Innovations in Science, Engineering & Technology organised Jeppiaar by Institute of Technology, Sriperumbudur (July 2021)
- Presented a paper on “Simulation Modelling of Floating cum Tilted Wick Type Solar Still” in the 5th International Conference on Chemical and environment Research (ICCER-2020), organised by Department of Chemistry, Jamal Mohamed College (Autonomous), Trichy (Jan 2020)
- Presented a poster on “Neutrino – Nucleon Interaction Cross Section” in an international conference on flavour physics organised by Nanyang University, Singapore (Nov 2010)
- Presented a paper on “Evaluation of Charged Current Neutrino – Nucleon Interaction Differential Cross Section” in a national symposium on nuclear physics organised by PG Department of Physics & research centre, Payyanur College, Kerala. (Jan 2009)
- Presented a poster on “Low Energy Charged Current Neutrino – Nucleon Interaction Total Cross Section” in international DAE symposium on nuclear physics (Dec 2008)
- Presented a paper on “Application of Solar Energy, Wind Energy and Biomass Energy for Rural Development” in a state level seminar conducted by Gandhigram Rural University, Dindigul (Nov 2006)
- Presented a paper in a State level seminar conducted by Srimad Andavan Arts and science College, Trichy on “Einstein – Nuclear age” (Dec 2005)

WORK SHOPS / SEMINARS ORGANISED

- Organizing Secretary, International Online Workshop on Materials Science and Computational Methods (Feb-2022)

WORK SHOPS AND SEMINARS ATTENDED

- Participated in “Webinar series on Materials for Energy and Environment (WSMEE 22-23) – Event 4, Organized by Department of Physics, St. Joseph’s College (Autonomous), Trichy (Jan 2023)
- Participated in two days “Inservice Teacher Training Programme” Organized by Tamilnadu State Council for Higher Education at Thanthai Periyar Government Arts and Science College, Trichy (May 2022)
- Participated in UGC CPE Sponsored Two-day Workshop on “Professional Development for Academic Leadership in Curriculum Design, Organised by Curriculum Development Cell”, Jamal Mohamed College, Tiruchirappalli (Jan 2019)
- Participated in the workshop “The MHRD Draft proposal for Higher Education Commission of India (Repeal of UGC Act, 1956) Act 2018” organized by Jamal Mohamed College, Tiruchirappalli (July 2018)
- Participated in Two days Science Academies’ Lecture workshop on “Advances in Particle Physics”, organized by Department of Physics, Periyar E.V.R College (Autonomous), Trichy (Feb 2017)
- Participated in the workshop on “Advances in Molecular Science” organized by PRIST University, Thanjavur (July 2010)
- Lecture Workshop on “Frontier topics in Physics” organized by Bishop Heber College, Trichirappalli. (Jan 2008)
- National level Workshop on “Nanomaterials and its Application” organized by National Institute of Technology (NITT), Trichirappalli (Jan 2008)
- National level Workshop on “Nanomaterials and its Application” organized by National Institute of Technology (NITT), Trichirappalli. (Dec 2006)
- Workshop on “Quantum Mechanics through MATLAB” jointly organized by IAPT and Sri Ramakrishna Mission Vidhyalaya College of Arts and Science, Coimbatore. (Dec 2005)
- National level seminar on “Recent Trends in Thin Film Technology”, conducted at St. Joseph’s College, Trichirappalli, (Feb 2003)

TECHNICAL SKILLS

Computer skills	:	MS – Office
Operating System	:	Windows, Ubuntu
Programming Languages	:	FORTRON , C
Tools	:	Matlab, Astrometrica

PUBLICATIONS IN INTERNATIONAL / NATIONAL JOURNALS

- ❖ “Performance of single slope solar still for socio-economic development in coast locations in India”, **International Journal of Ambient Energy**, 43:1, 5175-5183, 2021.
doi: <https://doi.org/10.1080/01430750.2021.1927838>
- ❖ "Influence of Nickel oxide nanoparticles on the absorption enhancement of solar radiation for effective distillation by single slope wick-type solar still." **Materials Today: Proceedings** 45: 2357-2363, 2021.
doi: <https://doi.org/10.1016/j.matpr.2020.10.704>
- ❖ “Antimicrobial Activities of Biimidazole Based Mixed Ligand Ruthenium(II) Complexes”, **International Research Journal of Pharmacy** 7 (8), 2016.
doi: <https://doi.org/10.7897/2230-8407.07893>
- ❖ “Influence Of Temperature On Nucleon Structure Functions” **Nuclear Physics A**, 930, 46-56, 2014.
doi: <https://doi.org/10.1016/j.nuclphysa.2014.07.026>
- ❖ “Evaluation of Charged Current Neutrino – Nucleon Interaction Cross Section” Published in **Modern Physics Letters A**, Vol 23, No.38, 2008.
doi: <https://doi.org/10.1142/S0217732308027059>
- ❖ “Evaluation of Charged Current Neutrino – Nucleon Interaction Differential Cross Section” Published in **Nuclear Physics A** , 859, 39 April 2011.
doi: <https://doi.org/10.1016/j.nuclphysa.2011.04.007>

PERSONAL PROFILE

Name	:	HARIHARAN.C
Father's Name	:	V. M. Chellamuthu
Age and Date of Birth	:	42 years, 05.01.1980
Religion and Community	:	Hindu, BC
Martial Status	:	Married
Languages Known (Read & Write)	:	Tamil & English
Residential Address	:	No 22/63, East Middle Street Edamalaipatti Trichy - 620 012.