

CURRICULUM VITAE

Aruna Dhathathreyan

Current position

Emeritus scientist and professor (AcSIR)

AcSIR, CSIR-CRI, Adyar
Chennai 600020, India

Research mentor/Consultant

Avinashilingam Institute of Home science & higher Education for Women
Deemed to be University, Coimbatore 641043

https://en.wikipedia.org/wiki/Aruna_Dhathathreyan

<https://www.linkedin.com/in/aruna-dhathathreyan-05307526/>

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Mobile 09445065544

Education

Ph.D., Dept. of Crystallography & Biophysics, Univ. of Madras, Chennai 600025 (1984)
M.Sc.(physics), Madras Christian College (Univ. of Madras) , Chennai 600059 (1975-77)-
First class
B.Sc. (physics), Women's Christian college (Univ. of Madras), Chennai 600006 (1971-74),
First class
Delhi Higher Secondary Board Certificate, Delhi Tamil educational Association Senior
Secondary School, Pusa Road, New Delhi (1971)-First class

Awards and recognitions

- Part of Compendium of **98 Women Scientists of India** - 'Leelavathi's daughters' brought out by Indian Academy of Sciences, Bangalore, 2006
- **Research Ambassador**- German Academic Exchange Program (DAAD) in Chennai Since June 2018
- Prof.G.S. Endowment Award (Univ. of Madras 2017) (Best Biophysics Alumna)
- Fellow, Madras Science Foundation, 2011
- **INSA DFG visiting Prof.**, 2010 (FRG) University of Gottingen, FRG
- Visiting Prof. DAAD Revisit July-Sept., 2009 (FRG)
- Best woman Biophysicist, Mother Teresa Women's University-Silver jubilee year award, 2009
- Lily Pithavadian endowment speaker, Women's Christian College, 2010
- Stree Shakti Samman award for Best Woman scientist, physical Sciences, awarded by the Stree Shakti Trust, Kolkata, 2005
- Bronze medal in Physical Chemistry, Chemical Research Society of India, Feb., 2003
- Raman Research Fellow, (Awarded by Council of Scientific and Industrial Research, Govt. of India, 1999)
- B.C.Deb memorial award for Physical Chemistry 1997-98 awarded by the 85th

session of the Indian Science Congress, India

Other academic merits

- o TED X speaker on 'Knowledge management in Government research Labs' at Tidel Park, Chennai 2014
- o Non EU reviewer – Polish Academy of Sciences, Poland
- o Expert, Principal Advisory Committee (PAC)- Physical chemistry, Dept. Of Science & Technology (2012-2015), SERB
- o Expert, PAC Chemical Sciences committee, Fast Track research program for Young Scientist, Dept. of Science & Technology, Govt. Of India (2008- 2010)
- o Subject Expert (Physical Chemistry-Chemical Sciences), Women's Research program, Dept. of Science and Technology, Government of India , (2003-2007)
 - o Member Editorial Team-German alumni network magazine online (2020 till date)
 - o Reviewer for Langmuir, Colloids and Interfaces, Adv. In colloid Sci., J.Phys.Chem.
 - o Editorial board member Colloids and Interfaces (MDPI)

Research merits - Research funding

Principal investigator of Dept. of Science and Technology, Govt. of India sponsored projects : Total No. of projects 9 (since 1992-till date)

- o Consultancy projects with industry: 4
- o DRDO-LSRB project: 1

Role in the funding applications/Research work

PI in all the DST, SERB, DRDO projects and in 2 Industrial consultancy projects

- Lead scientist- research group on interface sciences and applications to biomolecules since 1992 Chemical Lab., CSIR-CLRI
- Have supervised Ph.D., M.Tech, M.Phil, M.Sc. and B.Tech students
No. of Ph.D s: Produced: 11, ongoing 1
No. of M.Phil.: 7
No. of B.Tech. : 12
No. of M.Tech.: 4
No. of M.Sc. : 31
- Involved in local school and under graduate level projects on popularization of Science organized by CSIR, Govt. of India (including CPYLS for 10 years)
- Recognised research supervisor of the University of Madras, Anna University and AcSIR
- Team member and Work package leader in research projects as part of the CSIR supra projects, Network projects in the area of surface and colloid science

Professional associations/Membership

- Member OWSD
- Member, Biophysical Society, Maryland, USA
- Life Member, Indian Society for Surface Science, Calcutta, India
- Member, International Federation for University Women., Switzerland
- Life member, Chemical Research Society of India, Bangalore, India
- Life Member, Materials Research Society of India, Bangalore, India

Scientific impact of research

Total number of publications (from 1984)

International : 165, National 15, Book Chapter 2 (Incl. Invited Review for Encyclopaedia of Surface and Colloid Sci., Handbook of Biotechnology)

H index 24 (Source - Google Scholar)

Patent :An improved post tanning process for leather, Inventors, G.C. Jayakumar K.J. Sreeram Usha Ramamurthy, Aruna Dhathathreyan J. Raghava Rao, B.C. Unni Nair, Application no. 3812DEL2013, Grant date 04-01-2021, Patent No.355182

General Articles on A.Dhathathreyan and by A.Dhathathreyan

1. Circular economy: Indian ways of recycling, reusing and re-purposing, <https://www.alumniportal-deutschland.org/en/alumni-stories/recycling-and-reusing/>
2. Women's Day: Gender gap in Science awaits closure (Deccan Herald, March 2021) <https://www.deccanherald.com/specials/womens-day-gender-gap-in-science-awaits-closure-959464.html>
3. The Importance of Busting Gender, Sex Stereotypes in STEM, (Science , the wire, 2020) <https://science.thewire.in/the-sciences/womxn-gender-sex-stereotypes-stem/>
4. It is all about promoting equity and inclusion: A Chennai teacher's experience <https://www.alumniportal-deutschland.org/aktuelles/mitmachaktionen/ihre-beitraege-zum-thema-gleichberechtigung/abstimmung-zur-mitmach-aktion-gleichberechtigung/it-is-all-about-promoting-equity-and-inclusion/>
5. Interview in DAAD Newsletter, Jan., 2021 <https://www.daad.de/kataloge/daadletter/2021-01/>
6. Meet Aruna Dhathathreyan, the leather scientist - The Hindu www.thehindu.com › behind-the-hides › article21821298
7. Aruna, the Leather Detective
A conversation with a senior biophysicist at a leather institute in Chennai
The Life of Science, Nandita Jayaraj, <https://thelifeofscience.com/2016/03/07/aruna/>
8. Indian Science Congress: Rise of pseudo-scientific public proclamations has broad and ominous implications <https://www.firstpost.com/author/aruna-dhathathreyan/page/1>
8. Scientists - making sense and being sensitive , Current Science, 84 (10). p. 1281. (2003).
9. Teaching and research programmes in science in Indian universities , December 2003, Current science 85(11):1513-1514
10. 'To be a techie or not to be' – Science and technology scenario in India
Aruna Dhathathreyan, Current Science, Vol. 92, No. 11 (10 June 2007), pp. 1479-1480

11.Science what is masculine about it? , The Hindu (2008)

<http://www.hinduonnet.com/stories/08160005.htm>

Societal Programs

Volunteer Scribe for Visually Challenged students of Univ. of Madras (2010-2015)

Volunteer Teacher at Avvai Home for Girls- teaching soft skills and Mathematics economically weak and vulnerable girl students (2015-2017)

Volunteer Teacher at Olcott memorial High School -teaching Physics, Chemistry and Mathematics to economically weak students of Classes 10 and 11 (2018-March 2020)

Volunteer for Speak out and guidance program -1st generation Graduates through Team Everest, Chennai 2020- till date

Linguistic and other skills

Mother tongue: Tamil- read, write and speak fluently

Other languages: Hindi, English, German – read, write and speak fluently

Italian (read and write -Intermediate level) Speak (Basic)

Diploma in Psychological Counselling (March-Aug.2020)

Certificate in Advanced Course in Science Communication (Udemy, 2021)

Invited lectures on science 75

Invited popular lectures 25