



Dr. RM. Vidhyavathi
Assistant Professor

Contact

Address : Department of Bioinformatics
Alagappa University, Karaikudi - 630 003
Tamil Nadu, INDIA

Employee Number : 34403

Date of Birth : 19-05-1979

Contact Phone (Office) : +91 4565 223343

Contact Phone (Mobile) : +91 9444835869

Contact e-mail(s) : vidhyamiss@gmail.com

Skype id : vidhyaramasamy RM

Academic Qualifications:

Degree	Year of Passing	University / Institute
M. Sc. (Computer Science)	May, 2005	Madras University
M. Phil (Computer Science)	Mar, 2007	Alagappa University
M. Tech (Information Technology)	Apr, 2010	Sathyabama University
Ph. D (Computer Science)	Feb, 2014	Alagappa University

Teaching Experience: 7.2 Years

Designation	Institution	Department	Duration
Assistant Professor	Alagappa University, Karaikudi	Bioinformatics	Aug 2015 to till date
Teaching Assistant	Alagappa University, Karaikudi	Computer Science and Engineering	Jul 2014 to Apr 2015
Teaching Assistant	Alagappa University, Karaikudi	Computer Science and Engineering	Jul 2013 to Apr 2014

Senior Lecturer	Madha Institute of Engineering and Technology, Chennai	Information Technology	Jun 2010 to Jan 2011
Senior Lecturer	Jaya Engineering College, Chennai	Computer Science and Engineering	Aug 2006 to May 2010

Research Experience: 9.4 years

Additional Responsibilities

S. No.	Position
1.	Co-ordinator, Placement cell
2.	Co-ordinator, SwayamCourse
3.	Secretary, School of Biological Sciences Alumni
4.	Co-ordinator, NME (June 2019-May 2020)
5.	Co-ordinator, Azaghu/Departmental Magazine
6.	Training Officer, Vivekananda Cadet Corps(July 2016-June 2017)
7.	Member, Centre for Yoga Education
8.	Co-ordinator, Department Alumni and Parent Teacher Association
9.	Co-ordinator, Department Website and Computer Maintenance Committee
10	Member, Department Research Committee
11.	Member, Department Purchase Committee
12.	Member, Department Employability Skills and Career Guidance
13.	Executive Member, Alagappa University Faculty Association (ALUFA)(2016-2019)
14.	Member, Symposium and Association coordinator in Jaya Engineering College Chennai.
15.	In-charge of Alumni in Jaya Engineering College Chennai
16.	In-charge of Department Library in Madha Institute of Engineering and Technology, Chennai.

Areas of Research

Data mining and Data Warehousing, Database Security, Bioinformatics, Networking, Database Management System, Network Security, Information Security, Cloud Computing, Big Data Analysis and Computational Biology

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	-	-
	M.Phil.	-	-
Project	M.Tech	-	-
	M.Sc	9	-
	P.G.D.S.P	1	-
	UG / Others	5	-

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
14	2	-	9	-

Cumulative Impact Factor (as per JCR)	:	23.64
h-index	:	7
i10	:	7
Total Citations	:	350

Funded Research Projects

Completed Projects:

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	AURF Start up Grant	2015	2017	Classification of hierarchical clustering with FP-Growth algorithm to analyzing and creating the solution for chromosomal disorder	0.80

On-going Projects:

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	RUSA	2019	2020	MEDDB: DEVELOPMENT OF SPECIALIZED ANTIDENGUE DATABASE USING ASSOCIATION RULE MINING ALGORITHM	First Installment() 4,80,000

Consultancy Projects: Nil

Distinctive Achievements / Awards

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized:

- Organizing Committee Member, International Conference on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” 2019.
- Organizing Committee Member, 11th National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” and 2nd Annual Meeting of Bioinformatics and Drug Discovery Society [BIDDS] – 2019.
- Organizing Committee Member, 10th National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” and 1st Annual Meeting of Bioinformatics and Drug Discovery Society [BIDDS] – 2018.
- Parents Teacher Association Meet organized by Coordinators on 4th Mar 2017.
- Organizing Committee Member, 8th National Symposium Cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD-2017), 14th -17th Feb, 2017.
- School of Biological Sciences Alumni Meet organized by Alumni Office Bearers on 4th Jan 2017.
- Organizing Committee Member, 8th National Symposium Cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD-2016), 16th -19th Feb, 2016.

Events Participated (optional)

Conferences / Seminars / Workshops:

1.	Participated, Faculty Development Program organized by IEEE Madras Section on "Practical Exposure on Fundamental Mathematics behind Machine Learning", IEEE Madras Section and Department of Computer Science and Engineering SRM Institute of Science and Technology, from May 10-13, 2021.
2.	Participated “Two Week Online Capacity Building Programme For Faculty Members and Research Scholars” organized by Alagappa University Under the sponsorship of UGC Stride Component-1 from 12 th June 2020-23 rd June 2020.
3.	Participated, “A National Level 3 Day Virtual Faculty Development Program on “Moving To Master Science In Technology (MMST: 2020)”, Organized by Freshmen Engineering Department from 18 th -20 th June 2020.

4.	Participated “Machine Learning Techniques for Image Processing Approaches”, organized by Department of Computer Science, Mother Teresa Women’s University on 19th & 20th June 2020.
5.	Participated, Savanth An IEEE International Webinar Series, “Finding Needles in a Haystack: Liquid Biopsy for Nucleic Acid and Protein Molecular Biomarkers for Disease Diagnosis” organized by St. Joseph’s Institute of Technology, Department of Electronics and Communication Engineering, 19 th June 2020.
6.	Participated, Savanth An IEEE International Webinar Series, “Developing Flexible and Spectrally Efficient Photonic Systems Using Frequency Combs” organized by St. Joseph’s Institute of Technology, Department of Electronics and Communication Engineering, 18 th June 2020.
7.	Participated, Savanth An IEEE International Webinar Series, “Reproducibility and Benchmarking in AI and Robotics ” organized by St. Joseph’s Institute of Technology, Department of Electronics and Communication Engineering, 17 th June 2020.
8.	Participated, Savanth An IEEE International Webinar Series, “Big Data, IOT, Enterprise Data Management and the New data Requirements of Drones and Robotics Inspection Devices” organized by St. Joseph’s Institute of Technology, Department of Electronics and Communication Engineering, 16 th June 2020.
9.	Presented a paper in the “11 th National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design ” entitled Jaundb:A Jaundice database Developed using data mining algorithm for therapeutically aid, Department of Bioinformatics, [SBCADD'2019], Alagappa University, Karaikudi, 12 th – 15 th February 2019.
10.	Presented a paper in the” Recent Trends in Drug Discovery, Development and Targeted Delivery System for Cancer”, entitled Identification of Potent Inhibitor from Medicinal Plants for ABL Kinase Involved in Cervical Cancer through <i>In silico</i> Approach., Department of Biochemistry ,J.J College of Arts and Science, Pudukottai, 26th-27 th September 2019.
11.	Presented a paper in the “International Conference on Engineering, Medicine, Science & Technology, Kuala Lumpur”, entitled An efficient deep neural network based classification model for dengue fever prediction, MAHSA University, Kuala Lumpur, Malaysia, 14 th -15 th October 2019.
12.	Participated “International Conference on Computational Intelligence and Applications (ICCIA-2019)”, Department of Computational Logistics, Alagappa University, Karaikudi, 8 th -9 th August 2019.
13.	Presented a paper in the ,”First International Conference on Computational Science (ICCS-2019)”,entitled Medicinal Plants Database for Dengue, Tuberculosis and Jaundice: A Common platform for Genomic, Chemical and Traditional information, Department of Computer Science, Alagappa University, Karaikudi, 23rd-24th October 2019.
14.	Participated “Three-day International Workshop on E-Content Development for MOOCs among the Faculty Members”, Digital Education Cell, Alagappa University,Karaikudi, 10 th to 13 th September 2019.
15.	Participated “Two-Day International Conference on Recent Trends in Bioplastics”, Department of Microbiology, Alagappa University,Karaikudi,9 th and 10 th December 2019.
16.	Presented in the paper “International Conference on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design”,entitled <i>In Silico</i> Identification and Screening of Potent Bioactive Compound from <i>AcanthophoraSpicifera</i> against Lung Cancer, Department of Bioinformatics, Alagappa University, Karaikudi,11 th to 13 th December 2019 .
17.	Presented a paper in the “10 th National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design ” entitled Dendb: Development Of Specialized Antidengue Database Using SVM And ARM Algorithms [SBCADD'2018].

18.	Presented a paper in the “9 th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” entitled SCN5A Gene SNP’s in Irritable Bowel Syndrome and Its Influence in Structural Variance [SBCADD’2017].
19.	Presented a paper in the “9 th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design” entitled as Computational identification of potent inhibitors for Streptomycin 3"-adenylyltransferase of <i>Serratia marcescens</i> [SBCADD’2017].
20.	Participated in the National Workshop on “Career Prospects and Developments in Computer Science ” Organized University Business Collaboration Centre & Development of Computer Science held on 27.02.2017 and 28.02.2017 at Alagappa University, Karaikudi
21.	Participated in the International Workshop on “Molecular Physiology, Therapeutics and Experimental Medicine” conducted by Department of Animal Health and Management held on 06.09.2016 and 07.09.2016 at Alagappa University, Karaikudi.
22.	Presented a paper in the “National Seminar on Advances in Computer science” entitled Computational Algorithms and its Applications in Modern Biology, organized by the Department of Computer Science, Alagappa University, Karaikudi.
23.	Participated in the International Workshop on, “Data Science and Analytics” conducted by Department of Computer Science held on 27.09.2016 and 28.09.2016 at Alagappa University, Karaikudi.
24.	Faculty Development Program on “Cloud Infrastructure and Services” at Alagappa University, Karaikudi held on 23.02.2015 to 27.02.2015.
25.	Faculty Development Program on “Free and Open Source Software” at Jaya engineering college held on 23.11.2009 to 27.11.2009.
26.	Anna University Sponsored FDP on “Object-Oriented Analysis and Design” held on 07.05.2007 to 21.05.2007.
27.	Participated in the I.T National Conference on, “Web Technology and Open Source”, conducted by Jaya Engineering College held on 08.03.2007 and 09.03.2007 at CLRI Campus, Chennai.

Recent Publications

- 1 Muthumanickam Sankar, Balajee Ramachandran, Boomi Pandi, Nachiappan Mutharasappan, **Vidhyavathi Ramasamy**, Poorani Gurumallesh Prabu, Gowrishankar Shanmugaraj, Yao Wang⁴, Brintha Muniyandai, Subaskumar Rathinasamy, Balakumar Chandrasekaran, Mohammad F. Bayan, Jeyakanthan Jeyaraman, Gurumallesh,” *In silico* Screening of Natural Phytocompounds towards Identification of Potential Lead Compounds to Treat COVID-19” *Frontiers in Molecular Biosciences* July 2021, ,(**Impact Factor:** 5.249).
- 2 Thangarasu Suganya Devi, Karupiah Vijay, **R. M. Vidhyavathi**, Ponnuchamy Kumar, Muthusamy Govarathanan & Thangavel Kavitha, “Antifungal activity and molecular docking of phenol, 2,4-bis(1,1-dimethylethyl) produced by plant growth-promoting actinobacterium *Kutzneria* sp. strain TSII from mangrove sediments”, *Archives of Microbiology* May 2021,(**Impact Factor:** 2.552).
- 3 Sundararaj Rajamanikandan, Soundarapandian Soundarya, Anandhi Paramasivam, Dhamodharan Prabhu, Jeyaraman Jeyakanthan & **Vidhyavathi Ramasamy**,” Computational identification of potential lead molecules targeting rho receptor of *Neisseria gonorrhoeae*”, *Journal of Biomolecular Structure and Dynamics*, Feb 2021, (**Impact Factor:** 3.31) .

- 4 Jesudass Joseph Sahayarayan , Kulanthaivel SoundarRajan, Ramasamy Vidhyavathi , Mutharasappan Nachiappan, Dhamodharan Prabhu, Saleh Alfarraj, Selvaraj Arokiyaraj, Amalorpavanaden, Nicholas Daniel “Antifungal activity and molecular docking of phenol, 2,4-bis(1,1-dimethylethyl) produced by plant growth-promoting actinobacterium *Kutzneria* sp. strain TSII from mangrove sediments”, Saudi Journal of Biological Sciences, January 2021, (Impact Factor:4.219).