



Dr.RM.Vidhyavathi
AssistantProfessor

Contact Details:

Address	:	Department of Bioinformatics Bio-Computing Laboratory, Science Campus, 4 th Floor, Alagappa University, Karaikudi -630003 TamilNadu, INDIA
Employee Number	:	34403
Date of Joining	:	31.08.2015
Date of Birth	:	19.05.1979
Contact Phone(Office)	:	+91 4565 223343
Contact Phone(Mobile)	:	+91 9444835869
E-mail (s)	:	vidhyamiss@gmail.com vidhyavathirm@alagappauniversity.ac.in
Skypeid	:	vidhyaramasamyRM
Scopus	:	https://www.scopus.com/authid/detail.uri?authorId=56872792400
Web of Science	:	https://www.webofscience.com/wos/author/record/GPF-7986-2022
Google Scholar	:	https://scholar.google.com/citations?user=cWpIgXQAAAAJ&hl=en
Linkedin link	:	https://www.linkedin.com/in/vidhyavathi-rm-350746255/
Researchgate link	:	https://www.researchgate.net/profile/Vidhyavathi-Ramasamy-2

Academic Qualifications:

Degree	Year of Passing	University/Institute
M.Sc. (ComputerScience)	May,2005	Madras University
M.Phil (ComputerScience)	Mar,2007	AlagappaUniversity
M.Tech (InformationTechnology)	Apr,2010	SathyabamaUniversity
Ph.D (ComputerScience)	Feb,2014	AlagappaUniversity

Teaching Experience: 10.5 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	July 2014 to April 2015

Teaching Assistant	Alagappa University, Karaikudi.	Computer Science and Engineering	July 2013 to April 2014
Senior Lecturer	Madha Institute of Engineering and Technology, Chennai.	Information Technology	June 2010 to Jan 2011
Senior Lecturer	Jaya Engineering College, Chennai.	Computer Science and Engineering	Aug 2006 to May 2010

Research Experience: 09.4 years

Additional Responsibilities:

S.No.	Position - Dept. of Bioinformatics	Organization
1.	Member, BioInformatics and Drug Discovery Society	Alagappa University
2.	Co-ordinator, Placement cell (2019-Till Date)	Alagappa University
3.	Co- Coordinator, Industry Linkage (Sep-2015-till date)	Alagappa University
4.	Co-ordinator, Swayam Course (2017-Till date)	Alagappa University
5.	Co- Coordinator, VVP/NSS (July-2019)	Alagappa University
6.	Secretary, School of Biological Sciences Alumni (2016-Till Date)	Alagappa University
7.	Co-ordinator, NME (June 2019-May 2020)	Alagappa University
8.	Co-ordinator, Azaghu/Departmental Magazine (2016-Till Date)	Alagappa University
9.	Training Officer, Vivekananda Cadet Corps (July 2016-June 2018)	Alagappa University
10.	Member, Centre for Yoga Education (2017-2021)	Alagappa University
11.	Co-ordinator, Department Alumni and Parent Teacher Association (2016-2020)	Alagappa University
12.	Co-ordinator, Department Website and Computer Maintenance Committee	Alagappa University
13.	Member, Employability skills/career guidance (Dec-2016 to till date)	Alagappa University
14.	Member, Purchase Committee (Dec-2016-till date)	Alagappa University
15.	Member, Research Committee (Dec-2016-till date)	Alagappa University
16.	Member, Curriculum Development	Alagappa University
17.	Member, Examination Board	Alagappa University

Research Area of The Field:

Datamining and Data Warehousing, Database Security, Bioinformatics, Networking, Database Management System, Network Security, Information Security, Cloud Computing, Big Data Analysis and Computational Biology, Machine Learning and Artificial Intelligence, Block Chain Technology.

Research Supervision / Guidance: Computer Science and Bioinformatics

Program of Study		Completed	Ongoing	
Research	Ph.D(ComputerScience), Ph.D(Bioinformatics)	-	Bioinfo 02	Computer Science 02
	M.Phil.	-	-	
Project	M.Tech	-	-	
	M.Sc	12	06	
	P.G.D.S.P	1		
	UG/Others	5	-	

Publications

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

CumulativeImpactFactor(asperJCR)	:	23.64
h-index	:	10
i10	:	10
TotalCitations	:	671

Funded Research Projects

Completed Projects:

S. No	Agency	Period		ProjectTitle	Budget (Rs. In lakhs)
		From	To		
1	AURF Startup Grant	2015	2017	Classification of hierarchical clustering withFP-Growth algorithm to analyzing and creating the solution for chromosomal disorder	0.80

On-going Projects :

S.No	Agency	Period		ProjectTitle	Budget (Rs.In lakhs)
		From	To		First Installment
1	RUSA	2019	2020	MEDDB:Development of Specialized Antidengue Database Using Association Rule Mining Algorithm	4,80,000

ConsultancyProjects: Nil

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

Events Participated (optional)

Conferences/Seminars/Workshops:

1.	Participated , WEB-Conference on “Recent Trends of Computational Biology in Basic & Translational Research”. March 10 th -11 th 2022.
2.	Participated , MHRD-RUSA 2.0 “Biomaterials”, Functional Synthetic Material for Biomedical Applications, Department of Computer Science, University of Madras, March 7 th – 11 th 2022.
3.	Participated , International Conference on Advanced Computing (ICAC-2022), Department of Computer Science, Bharathiar University, Coimbatore-641046, March 3 rd & 4 th 2022
4.	Participated , National Webinar on Machine Learning, UGC-HRDC Department of Computer Science, University of Madras, March 19 th 2022
5.	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.
6.	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.
7.	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.
8.	Participated “Machine Learning Techniques for Image Processing Approaches”, organized by Department of Computer Science, Mother Teresa Women’s University on 19 th & 20 th June 2020.
9.	Participated , Savanth An IEEE International Webinar Series, “Finding Needles in a Hay stack: 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.

10.	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.
11.	Participated , Savanth An IEEE International Webinar Series, “Reproducibility and Bench marking in AI and Robotics” organized by St. Joseph’s Institute of Technology, Department of Electronics and Communication Engineering, 17 th June 2020.
12.	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.
13.	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.
14.	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>Insilico</i> Approach, Department of Biochemistry, J.J College of Arts and Science, Pudukottai, 26 th -27 th September 2019.
15.	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.
16.	Participated “International Conference on Computational Intelligence and Applications (ICCIA-2019)”, Department of Computational Logistics, Alagappa University, Karaikudi, 8 th -9 th August 2019.
17.	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, 23 rd -24 th October 2019.
18.	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.
19.	Participated , “Two-Day International Conference on Recent Trends in Bioplastics”, Department of Microbiology, Alagappa University, Karaikudi, 9 th and 10 th December 2019.
20.	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>Acanthophora Spicifera</i> gainst Lung Cancer, Department of Bioinformatics, Alagappa University, Karaikudi, 11 th to 13 th December 2019.
21.	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].
22.	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].
23.	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’-adenylyl transferase of <i>Serratia marcescens</i> [SBCADD’2017].
24.	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

25.	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.
26.	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.
27.	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.
28.	Faculty Development Program on “Cloud Infrastructure and Services” at Alagappa University, Karaikudi held on 23.02.2015 to 27.02.2015.
29.	Faculty Development Program on “Free and Open Source Software” at Jaya engineering college held on 23.11.2009 to 27.11.2009.
30.	Anna University Sponsored FDP on “Object-Oriented Analysis and Design” held on 07.05.2007 to 21.05.2007.
31.	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 CLRIC ampus, Chennai.

Extension activities

Refresher Course,

- 1. Refresher Course, UGC-HRDC, Madurai Kamaraj university, Madurai, from 15.03.2023 to 30.03.2023**
- 2. Refresher Course, UGC-HRDC, University of Madras, Madras, from 15.11.2022 to 28.11.2022**
- 3. Refresher Course, UGC-HRDC Bharathidasan University Thiruchirappalli, from 16.07.2019 to 29.07.2019.**
- 4. 100th Orientation program, UGC-HRDC, Bharathidasan University, Thiruchirappalli, from 15.11.2017 to 21.12.2017**

Overseas Exposure / Visits

1. Malasia

Membership in professional / national / international bodies

1. Life member: BIDDS (Bioinformatics Drug Discovery Society), Tamil Nadu, Karaikudi.

Recent Research Work:

1. Pass Thought Mind Controlled Authentication with BCI Technology
2. Intelligent Diabetic Retinopathy Detection with Deep Transfer Learning Mode
3. Experimental and Computational Studies on Phytocompounds Ceretophyllum demersum against Therapeutic Targets

Recent Publications :

1	Muthumanickam Sankar, Balajee Ramachandran, Boomi Pandi, Nachiappan Mutharasappan, Vidhyavathi Ramasamy , Poorani Gurumallesh Prabu, Gowrishankar Shanmugaraj, Yao Wang, Brintha Muniyandai, Subaskumar Rathinasamy, Balakumar Chandrasekaran, Mohammad F. Bayan, Jeyakanthan Jeyaraman, Gurumallesh, "In silico Screening of Natural Phyto compounds towards Identification of Potential Lead Compounds to Treat COVID-19" <i>Frontiers in Molecular Biosciences</i> July 2021. (Impact Factor: 5.249).
2	Thangarasu Suganya Devi, Karuppiyah Vijay, R.M. Vidhyavathi , Ponnuchamy Kumar, Muthusamy Govarthanam & Thangavel Kavitha, "Antifungal activity and molecular docking of phenol, 2,4-bis(1,1-dimethylethyl) produced by plant growth-promoting actinobacterium <i>Kutzneria</i> sp. strain TSII from mangrove sediments", <i>Archives of Microbiology</i> 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 <i>Neisseria gonorrhoeae</i> ", <i>Journal of Bimolecular Structure and Dynamics</i> , Feb 2021, (Impact Factor: 3.31).
4	Jesudass Joseph Sahayarayan, Kulanthaivel SoundarRajan, Ramasamy Vidhyavathi, Mutharasappan Nachiappan, Dhamodharan Prabhu, Saleh Alfarraj, Selvaraj Arokiyaraj, Amalorpavanden, Nicholas Daniel "Antifungal activity and molecular docking of phenol, 2,4-bis(1,1-dimethylethyl) produced by plant growth-promoting actinobacterium <i>Kutzneria</i> sp. strain TSII from mangrove sediments", <i>Saudi Journal of Biological Sciences</i> , January 2021, (Impact Factor: 4.219).

Book chapter

Dr. RM. Vidhyavathi **Ontology Generation for Semantic Search System using Data Mining**
Accepted, March 2021 ISBN: 6203471054

Dr. RM. Vidhyavathi, S.Nooriya Begam, J. Josephine Sahaya Vergin,
 C programming language **Under Review**

Journal Reviewer

- Journal of Bimolecular Structure and Dynamics
- Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization
- Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization
- Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization

<ul style="list-style-type: none">• Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization
<ul style="list-style-type: none">• Journal of Biomolecular Structure and Dynamics
<ul style="list-style-type: none">• Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization
<ul style="list-style-type: none">• Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization
<ul style="list-style-type: none">• In International Conference on Recent Trends in Information Technology and its Application ICRTITA'22 during 29th & 30th August 2022. Vel Tech R&D Institute of Science and Technology