

CURRICULUM VITAE

Dr. M. UDAYAKUMAR
M.Sc., M.Phil., Ph.D.,

Assistant Professor

- **INSPIRE Fellow – DST**
- **JSPS HOPE Fellow – Japan**
- **YOUNG SCIENTIST – DST-SERB, Govt. of India**
- **Expert: English to Tamil Translation-CSTT, MHRD, Govt. of India**

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Date of Birth : 15th January, 1984

Place of Birth: Elluvilai Village, Tuticorin, Tamil Nadu

Nationality: Indian

Citation indices: Citations: 150; h-index: 7; i10 index: 5 (as on June 2018)

EDUCATIONAL QUALIFICATION

Ph.D.: **Botany-Ecology**, 2015. ECOLOGICAL STUDIES ON SELECTED TROPICAL DRY EVERGREEN FORESTS OF SOUTHERN COROMANDEL COAST, PENINSULAR INDIA: University of Madras, Pachaiyappa's College, Chennai: **Highly Commended**

M.Phil.: **Biotechnology**, 2009. Sathyabama University, Chennai; **University Rank Holder**

M.Sc.: **Botany**, 2007. Centre for Advanced Study in Botany, University of Madras, Chennai; **University Rank Holder – First Rank**

B.Sc.: **Botany**, 2005. Presidency College, Chennai; **Rank Holder – First Rank**

HSC: 2002. Government Higher Secondary School, Kamaraj Nagar, Chennai -600071; **First Class**

SSLC: **1999**. Government Boys Higher Secondary School, Attur, Salem – 636102; **Distinction**

Primary School: **1989-1994**. Municipality Primary School, Attur, Salem – 636102

Project	Funding Agency	Amount sanctioned
Ecological Studies on Selected Sacred Groves of Southern Coromandel Coast, Peninsular India	Department of Science and Technology, Govt of India, New Delhi	18,00,000/- (Completed)
Estimation of Woody Plant Biomass in Point Calimere Wildlife and Bird Sanctuary, Tamil Nadu, Peninsular India	Science and Engineering Research Board, DST, Govt of India, New Delhi	34,87,000/- (Ongoing)

MERITS AND AWARDS

- **2015: YOUNG SCIENTIST**, Department of Science & Technology (Ministry of Science & Technology), Govt. of India
- **2013: JSPS HOPE Fellow**, Japan Society for Promotion of Science, Japan (Nominated by DST, Ministry of Science & Technology, India)
- **2010: INSPIRE Fellowship**, Department of Science & Technology [Ministry of Science & Technology], Govt. of India.
- **2014: Research Associate**, Ministry of Earth Science, Govt. of India, New Delhi
- **2012: Senior Research Fellow**, Indian Council for Medical Research, Govt. of India, New Delhi (Not utilized)
- **2010: Junior Research Fellow**, University Grants Commission, Govt. of India, New Delhi
- **2009: Meritorious Fellowship**, Department of Higher Education, Govt. of Tamil Nadu (Not utilized)
- **2008: Junior Research Fellow**, Indian National Science Academy, Govt. of India, New Delhi
- **2005: Rank Holder-First Rank, B.Sc., – Presidency College, Chennai**
- **2007: Rank Holder-First Rank, M.Sc., – University of Madras, Chennai**
- **2009: University Rank holder, M.Phil., – Sathyabama University, Chennai**
- **2006: Merit Fellowship award, University of Madras, Chennai**
- **2005: Prof. Mahadevan Scholarship, University of Madras, Chennai**
- **2005: Fyson Prize, Presidency College, Chennai**
- **2003: Meritorious Student Award, TNSC Bank, Chennai**

GUIDESHIP

Number of Ph.D., Ongoing: 04

Number of M.Phil., Awarded: 02

Number of M.Sc., Dissertation: 04

PUBLISHED ARTICLES

Total: 21; National: 05; International: 16

- Selvam, A., Naghdi, M., Markande, A., Taheran, M., **Udayakumar, M.**, Murugesan, K., Wong, J.W.C., Brar, S.K., Hegde, K., and Zhang, T.C. 2017. Biohazardous and Biomedical Waste. In: Handbook of Environmental Engineering (Ed. Surampalli, R.Y., Brar, S.K., Zhang, T.C., Hegde, K., Pulicharla, R., and Verma, M.), McGraw-Hill Global Education Holdings, LLC, Chapter 7.4.
- **Udayakumar, M.** and **Sekar, T.** 2017. Estimation of Leaf Area-Wood Density Traits Relationship in Tropical Dry Evergreen Forests of Southern Coromandel Coast, Peninsular India. Pandey KK, Ramakantha V, Chauhan SS, Kumar AAN (Eds.) Wood is Good: Current Trends and Future Prospects in wood Utilization. Springer, Singapore. pp. 480
- **Udayakumar, M.** and Sekar, T. 2012. Density, diversity and species richness of woody plants in urban green spaces: A case study in Chennai metropolitan city, India. *Urban Forestry and Urban Greening* 11: 451-458.

- Parthasarathy N., Arthur Selwyn M. and **Udayakumar M. 2008.** Tropical dry evergreen forests of peninsular India: ecology and conservation significance. *Tropical Conservation Science* Vol. 1 (2): 89-110.
- Ranjith, S., Sugumar, P., Rajagopal, G., **Udayakumar, M.** and Ponnuswamy, M.N. **2014.** Synthesis, growth, characterization, structure and molecular docking studies of 1-[(E)-{[4-(morpholin-4-yl)phenyl]imino} methyl] naphthalen-2-ol single crystal: A potential antimicrobial agent. *Journal of Molecular Structure* 1065-1066: 21-28
- **Udayakumar, M.,** Ayyanar, M. and Sekar, T. **2011.** Angiosperms of Pachaiyappa's College, Chennai, Tamil Nadu, India. *Check List* 7(1): 37-48.
- **Udayakumar, M.,** Dhatchanamoorthy, N., Ajithadoss, K. and Sekar, T. **2010.** A floristic study in a perennial lake of Thiruvallur district, south India. *WebmedCentral Ecology* 1(10); WMC001037.
- **Udayakumar, M.,** Ayyanar, M. and Sekar, T. **2010.** Medicinal Plants used by local practitioners in Villupuram district of Tamil Nadu, Southern India. *Medicinal Plants* 2 (2):145-155.
- **Udayakumar, M.** and Parthasarathy, N., **2010.** "Angiosperms, tropical dry evergreen forests of southern Coromandel coast, India". *Check List* 6 (3):368-381.
- **Udayakumar, M.** and Ajithadoss, K. **2010.** "Angiosperms, hydrophytes of five ephemeral lakes of Thiruvallur District, Tamil Nadu, India". *Check List* 6 (3):270-274.
- Kumari Subitha, T., Ayyanar, M., **Udayakumar, M.** and Sekar. T. **2011.** Ethnobotanical plants used by Kani tribals in Pechiparai forests of Southern western Ghats, Tamil Nadu, India. *International Research Journal of Plant Science* 2(12): 349-54.
- **Udayakumar, M.,** Bharathidasan, E. and Sekar, T. 2014. Invasive Alien Flora of Thiruvallur District, Tamil Nadu, India. *Scholars Academic Journal of Biosciences* 2: 295-306.

RESEARCH EXPERIENCE

- **Young Scientist** awarded by **DST-SERB, GoI.** "Estimation of Woody Biomass in Point Calimere Wildlife and Birds Sanctuary, Tamil Nadu, Peninsular India". Department of Botany, Presidency College, Chennai.
- **Research Associate** in **MoES, GoI** funded project "Estimation of Carbon Sequestration Potential of Trees in Southern Eastern Ghats, Tamil Nadu, India" Department of Botany, Pachaiyappa's College, Chennai.
- **INSPIRE Fellow** awarded by **DST, GoI.** "Ecological Studies on Selected Tropical Dry Evergreen Forests of Southern Coromandel Coast, Peninsular India". Department of Botany, Pachaiyappa's College, Chennai.
- **Research Associate** in **Eco Services India Pvt. Ltd.** funded project "Flora of Cooum River" at CAS in Botany, University of Madras, Chennai, India
- **Project Fellow** in **UGC** funded project "Molecular Characterization. *in vitro* Propagation and *ex situ* conservation of *Strychnos minor* (Loganiaceae) an Endemic

Medicinal plant” at PG & Research Department of Botany, Pachaiyappa’s College, Chennai, Tamil Nadu.

- **Junior Research Fellow (JRF)** in Indian National Science Academy (INSA) project entitled “**Indigenous knowledge on the medicinal plants resources of the forests of Coromandel Coast of India in the modern period**” at Department of Ecology and Environmental Sciences, Pondicherry University, Puducherry.
- Summer project on “**Flora of Guindy Campus**” under the guidance of Prof. R. Rengasamy, CAS in Botany, University of Madras, Chennai
- Project on “**Flora of Mahabalipuram a UNESCO Heritage site**” under the guidance of Prof. K. Ajithadoss, Presidency College, Chennai.
- Project on “**Flora of Pachaiyappa’s College**” under the guidance of Dr. T. Sekar, Pachaiyappa’s College, Chennai, India.
- Project on “**Tree diversity of Chennai**” under the guidance of Prof. K. Ajithadoss, Presidency College, Chennai, India.

PUBLISHED BOOKS

- Sekar, T. and **Udayakumar, M. 2011**. The Green Wealth of Pachaiyappa’s College. Pachaiyappa’s College Publication, Chennai, India. pp. 229.
- Ajithadoss, K. and **Udayakumar, M. 2006** “Handbook on plants around you”. Green Wealth Publications, Chennai, India. pp.72.

POPULAR ARTICLES

- Kunguma Cimizh-Kalvi Velai Vazhikatti, 65 Articles
- The Hindu, 10 Articles
- Makkal Jothi: 25 Articles
- The New Indian Express; 02 Articles

CONFERENCE/SYMPOSIA ATTENDED

- National: 17; International : 6
- One day National Seminar on “Probotics and Nutraceuticals for Human and Animal Health” Department of Animal Science, MS University, Tirunelveli. 18th September 2017.
- **Udayakumar, M.** (2013). Carbon Storgae and Sequestration Potential of Trees in Tropical Dry Evergreen Forest, Southern Coromandel Coast, Peninsular India. **HOPE Meeting with Nobel Laureates. Fifth HOPE Meeting**, Japan Society for the Promotion of Science (JSPS), Japan. February to March, 2013.
- **Udayakumar, M.** and Sekar, T. (2013). Estimation of stored aboveground biomass and carbon sequestration of *Albizia saman* in Chennai metropolitan city, India.

Fourth National Research Conference on Climate Change, Indian Institute of Technology. Madras, India. 26-27 October, 2013.

- **Udayakumar, M.** and Sekar, T. (2012). Carbon storage and sequestration potential of trees in selected tropical dry evergreen forests, southern Coromandel Coast, Peninsular India. *Second Indian Biodiversity Congress*, Indian Institute of Science, Bangalore, India. 9-11 December, 2012.
- **Udayakumar, M.** Parthasarathy, N and Sekar, T. (2010) Distribution of Endemic and Threatened Plant Species in Tropical Dry Evergreen Forests of Coromandel Coast of Tamil Nadu. *XI IOPB Conference*, Aurangabad, Maharashtra, India 2-4th September 2010.
- **Udayakumar, M.** Parthasarathy, N and Sekar, T. (2010) Medicinal plant wealth of sacred groves in Pudukottai district of Tamil Nadu. *National Conference on Herbal Medicine*, Bharathiar University, Coimbatore, Tamil Nadu, India. 8th and 9th September 2010.
- **Udayakumar, M.** and Sekar, T. (2010) Medicinal Plant Flora of Sacred Groves of Villupuram District, Tamil Nadu “*International Conference on Medicinal Plants and Herbal Drugs: Challenges and Opportunities in Cultivation, Sustainable Utilization and Conservation*”. Pachaiyappa’s College, Chennai, Tamil Nadu, India. 3-5th March, 2010.
- Manogaran, M. **Udayakumar, M.** and Sekar, T. (2010) Medicinal Plant Flora of Pachaiyappa’s College, Chennai, Tamil Nadu “*International Conference on Medicinal Plants and Herbal Drugs: Challenges and Opportunities in Cultivation, Sustainable Utilization and Conservation*”. Pachaiyappa’s College, Chennai, Tamil Nadu, India. 3-5th March, 2010.
- **Udayakumar, M.** and Parthasarathy, N. (2008) Tropical dry evergreen forests: Biodiversity and ecology. National conference on “*Biotechnological intervention for conservation and sustainable utilization of bio-resources*”. Sathyabama University, Tamil Nadu, India. 7-9th August 2008.

WORKSHOP/TRAINING ATTENDED

- National Colloquium on Technology Enabled Learning, IIT Bombay and MHRD held on 19th April, 2018. MS University, Tirunelveli.
- International workshop on “Recent trends in food biotechnology and exploration of the opportunities to feed the world” Department of Biotechnology, MS University, Tirunelveli. 10th January 2018.
- A One day Research Orientation Programme for Research Supervisors pf Manonmaniam Sundaranar University, Tirunelveli. 01st November 2017.
- Lecture Workshop on “Recent Advances in Biological Sciences” Department of Plant Biology, G. Venkataswamy Naidu College, Kovilpatti. 26 and 27th September 2017.
- A One-day Orientation Programme for Government, Aided and Autonomous College Teachers of Manonmaniam Sundaranar University, Tirunelveli. 15th September 2017.

- Training Programme on “Effective Utilization of E-Resources”. University Library and Internal Quality Assurance Cell, MS University, Tirunelveli. 10th August 2017.
- One Day Training on High Impact Teaching Skills, Internal Quality Assurance Cell, MS University, Tirunelveli. 19th July 2017.
- Workshop for preparation of Fundamental Glossary of Botany (English-Hindi-Tamil), Commission for Scientific and Technical Terminology, Ministry of Human Resource Development, Department of Higher Education, Govt of India, 04-08 January 2017.
- Workshop on Advances in Microscopy, Histochemistry and Plant Microtechniques, Department of Plant Science, MS University, Tirunelveli, Tamil Nadu, 19-21 December 2016.
- A One-day orientation Programme for Newly Recruited Teachers of Manonmaniam Sundaranar University, Centre for Curriculum and Faculty Development, MS University, Tirunelveli, Tamil Nadu, 02 December 2016.
- Hands on training in Molecular biology techniques, Sathyabama University, Chennai, India, 5th – 10th August, 2010.
- UGC-NRCBS Winter School on Recent Trends in Applied Ecology: Theory and Practice. Madurai Kamaraj University. 25th August – 8th September, 2011.

LIFE MEMBER

- The Indian Science Congress Association, Kolkata, India

RESOURCE PERSON

- Expert: Preparation of Glossary of Botany (English-Hindi-Tamil), Commission for Scientific and Technical Terminology, Ministry of Human Resource Development, Government of India.
- Resource Person: Career Guidance-Higher Education - 2013: Government Higher Secondary School, Ashok Nagar, Chennai – 600 083.
- Subject Expert – Forest Ecology and Environment: 2013, Sirappu Virundhinar, Jaya TV, Broadcasted on 11th April, 2013
- Career Guidance-Higher Education - 2014: Government Higher Secondary School, Ashok Nagar, Chennai – 600 083.

EXTRA CURRICULAR ACTIVITIES

- Volunteer in National Service Scheme (NSS) during HSC & Undergraduate.
- First Prize: 2005: Roam and Write – Taxonomy, Madras Christian College, Chennai
- First Prize: 2005: Botany Quiz, Madras Christian College, Chennai
- First Prize: 2005: Exhibition on economically important plants, Presidency College, Chennai

- Second Prize: 2005: Mendel's Rolling Shield, The New College, Chennai

Dr. M. Udayakumar (08.06.2018)