

## RESUME



Name : **E.JOY SHARMILA**

Date of Birth : 20.11.1970

Sex : Female

Designation : PG Head & Associate Professor

Department : Zoology

Institution : The American College, Madurai

Years of Teaching Experience : UG 19 years, PG 19 years.

Years of Research Experience : 13 years.

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### Academic qualifications

Course	University/Institution	Duration	Subject	Class
Ph.D	Madurai Kamaraj university	2009-2016	Zoology	Awarded July 2016
M.Phil	The American College, Madurai	1992-1993	Zoology	First class
M.Sc	The American College, Madurai	1990-1992	Zoology	First class
B.Sc	Lady Doak College, Madurai	1987-1990	Zoology	First class with distinction.

**Title of Ph.D thesis:** Studies on the butterflies of Alagar Hills reserve forest.

## Professional experience

<b>Designation</b>	<b>Institution</b>	<b>Period</b>
Lecturer	Lady Doak College, Madurai	1996-1997,1998-2001
Lecturer	Auxilium College, Vellore	1997-1998
Assistant Professor	The American College, Madurai	2006- 2022
Assistant Professor & UG Head	The American College, Madurai	2018- 2023
Associate Professor & PG Head	The American College, Madurai	2023- till date

## Other responsibilities

1. Association President for PG Zoology association 2014 -17
2. Convener of Butterfly garden of The American College 2016- till date
3. President Soropti youth club 2016
4. Criterion II head 2018
5. UG head of the Department of zoology 2018
6. Coordiantor Dept of Food processing and preservation B.Voc programme 2018- 2021
7. Member of IQAC team 2019-21
8. Jt. Secretary ACPGZAA EC 2019-22
9. Secretary ACPGZAA EC 2023

**Research Projects Received** : 2-UGC Minor Research Projects, 1- TNSCST

### 1. UGC Minor Research Project

**Title** : Biodiversity of butterflies in Alagar Hills, Tamil Nadu.

**Duration** : 18 months Oct 2009 – June 2011.

**Amount** : 1.5 lakhs

### 2. UGC Minor Research Project

**Title:** Study on the biology and captive breeding of butterflies in Alagar Hills

**Duration:** Mar 2014- April 2016

**Amount:** 3.5lakhs

### 3. TNSCST – S&T

**Title: Study on the diversity of butterflies of Sirumalai hills Eastern Ghats, Tamil Nadu.**

Duration: 1 year and 6 months 2019

Amount: 3.65 lakhs

### 4. TNSCST – RFRS fellowship for research scholar under my guidance

**Title: Baseline study on the diversity, plant interaction, nanostructures, barcoding and conservation of butterflies in kodimangalam reserve forest, Madurai.**

Duration: April 2022 to March 2024 – 2 years

Amount : 3 lakhs

### Genbank sequence submission

Submitted 3 barcode sequences of butterflies in Genbank – KF733789, KF733790, KF733791

### Membership in professional bodies

1. Member of Lepidopterist society
2. Member of Young Ecologist Talk and Interact

### Publication in Accredited International / National Journals

1. Joy Sharmila E and Dwarakanath S. K 2009 Immunosuppressive effect of sevin on the humoral immune response to cellular antigens in *Oreochromis mosambicus* (peters) in the Asian Journal of Microbiology, Biotechnology & Environmental Science Vol II Nov 4: 947 -949.
2. Joy Sharmila E and Thatheyus J, 2009. Biodiversity of butterflies in Hawa valley reserve forest – Tamil Nadu. Current Biotica 3: 135-142.
3. Joy Sharmila E and Thatheyus J, 2011. Biodiversity of butterflies in Sirumalai hills. Newsletter Bugs for all.
4. Joy Sharmila E and Thatheyus J, 2013. Biodiversity of butterflies in Alagar hills – Tamil Nadu 2013, Current Biotica 6(4) : 473-479.
5. Joy Sharmila E 2013 Winged wonders. The Hindu - September 3<sup>rd</sup>
6. Joy Sharmila E and Thatheyus J 2014. A first report of Southern Birdwing *Troides minos* (Cramer) in Alagar hills, Tamil Nadu, India. Research Journal of Agriculture and Environmental Management 3(2):74-75.

7. Joy Sharmila E and Thatheyus J 2012 Diversity of Nymphalids in Alagar Hills Tamil Nadu in Indian science. Acta Xavieriana (Special issue) 233-236, 2012.
8. Joy Sharmila E 2015, Captive breeding of butterflies in Alagar Hills Dinamalar, Indian Express.
9. Submitted four Barcode gene sequences of butterflies of Alagar Hills in the sequence data of Genbank. The data is available in EMBL Europe and DNA data base of Japan -2015.
10. Produced a documentary on the congregation of butterflies in The American College campus – 2015.
11. Joy Sharmila E 2016 Following butterflies in The Hindu.
12. Raghuram H, Velladurai P, Sivaruban T, Angeline T, Joy Sharmila E, Joseph Thatheyus A and Navaneethakannan K. (2017). Stress, difficulties and challenges faced by the Zoology students of the American College, Madurai. In: Proceedings of NAAC sponsored National conference on “*Strategies of quality initiative, enhancement and sustenance in higher education*” (John Sekar J, Gnanasekar K, Muthuraja C and Sanjay R eds) Pp.123-129, Published by Vergal Publication, Madurai. Conference organized by IQAC, the American College, Madurai during 21 & 22 February 2017.
13. Joy Sharmila E 2018 Perils of Higher education in National conference on quality sustenance in Higher education at LDC 2018
14. Joy Sharmila E and Thatheyus J 2018 Biodiversity of butterflies in The American college campus, Madurai. Roots International journal.
15. E. Joy Sharmila , A. J. Thatheyus, S. Susaritha and M. Snegapriya 2020 Seasonality of butterflies in Alagar Hills reserve forest, India. ENTOMON 45(1): 53- 60
16. Anusya Devi Joy Sharmila E Rangesh K Susaritha S and Archana B 2021 Population dynamics of *Catopsilia pyranthe* in butterfly garden. Indian Journal of Ecology 48(3): 749-751
17. E. Joy Sharmila, A. Joseph Thatheyus, S. Susaritha, M. Snega Priya, B. Archana and K. Rangesh Microstructure of wing scales in butterfly species from Alagar Hills, Tamil Nadu, India ENTOMON 47(2): 135-142 (2022)
18. B. Archana, E. Joy Sharmila, M. Snegapriya, K. Rangesh and S. Susaritha Fourier transform infra-red (FTIR) spectrochemical analyses of Pieridae butterfly wings. ENTOMON 47(1): 103-112 (2022)

### **Guideship**

Recognition as full time guide from Madurai Kamaraj University from the year 2017  
Three students working under my guidance

## Presentation in International / National Seminars

1. Immunomodulation of DTH & HI response to a cellular antigen by the selected anti-inflammatory drugs. National conference on Emerging Trends in Bio Medical Sciences at Holy Cross College, Trichy – 2007.
2. Relevance of Biogas to the Rural Community National Conference on Environmental Biotechnology at Loyola College, Chennai – 2007.
3. Conservation of butterflies in BIOCAM during 3 to 6 Feb 2008 Cochin.
4. Conservation of biodiversity of butterfly fauna at Hawavalley, International conference on Global warming - Biodiversity of insects Bharathiyar University, Coimbatore – 2008.
5. Diversity of butterflies in Alagar hills YETI, IISC Bangalore -2009
6. Seasonality and abundance of butterflies in Walkers path Alagar hills, International conference on wildlife conservation, health and disease management, Veterinary University, Chennai 2010.
7. Barcoding of butterflies at Biotechnology fusion of advanced research and training organized by School of Biotechnology, MKU 2010
8. Seasonality and abundance of butterflies in vathipatti at the National Conference on Biodiversity threats and richness at Gandhigram University – 2011.
9. Diversity of Nymphalids in Alagar hills ,National conference on Biodiversity at St.Xaviers college Palayamkottai-2012
10. Barcoding of butterflies of Alagar Hills, Biodiversity congress at SRM university 2015.
11. *In situ* conservation of butterflies in The American College campus at The National conference at Madurai Kamaraj University- 2016.
12. Role of honey in human health, International conference on Food mediated immunity at The American College, Madurai – 2016.
13. Biodiversity of butterflies in The American college at the National conference on “Impacts of Pollution on Health and Restoration of Quality Environment Through Biotechnology Applications” at The American College Madurai -2018
14. Presented a poster on Density of butterflies of Alagar Hills, Tamil Nadu India at the 6<sup>th</sup> Asian Lepidoptera Conservation Symposium 20-21<sup>st</sup> September 2019 at Zoological Survey of India, Kolkata.

### **Training attended**

1. Attended “ Fifth All India Summer Research Training on Molecular Techniques” from 16.05.2007 to 30.0.2007 at Sengunthar Arts and Science college, Tiruchengode.
2. Attended a Technical update seminar on “Cutting Edge Molecular Techniques” at Lady Doak College, Madurai -2008
3. Hands on Training in r-DNA techniques at Osho research institute, Madurai - 2009.
4. Hands on training in cutting edge molecular techniques at Lady Doak College, Madurai -2008.
5. Attended training on Introductory training course on field oriented forest entomology in Central Forest Research Institute Coimbatore – 2009.
6. National workshop on cell culture techniques at Lady Doak College, Madurai – 2010.
7. Training in Plant Tissue Culture at Biozone, Chennai – 2010.
8. Techniques in molecular biology at Bharathidasan university, Trichy-2011.
9. Training in bee keeping at Vibis farm Kadachanenthal, Madurai -2015.
10. Training in bee keeping at TNAU, Coimbatore -2015.
11. Training at Aravind Eye hospital Madurai on Experimental approaches to proteomics -2016
12. One day practical course training in DNA taxonomy and phylogeny at Sathya Bama University Chennai – 2018
13. Participated in the workshop on poultry rearing techniques at The American College in collaboration with TANUVAS on 2019
14. Participated in one day EDP training programme organized by CSB Mysuru Samayanallur Madurai & The UG Dept of zoology The American college on 2020.

### **Refresher and Orientation courses**

1. Participated in the UGC sponsored Orientation programme held at Madurai Kamaraj University from 1.2.2012 to 28.02. 2012
2. Participated in the UGC sponsored refresher course on “ Emerging trends in Life Sciences” at Madurai Kamaraj University from 7.11.2012 to 27.11.2013
3. Participated in the UGC sponsored refresher course on “ Recent developments in Biology “at Madurai Kamaraj University from 2.11.2016 to 22.11.2016
4. Participated in the UGC sponsored refresher course on “Emerging trends in Life Sciences” at Madurai Kamaraj University from 5.3.2020 to 18.3.2020

5. Attended two week course on Managing online classes and cocreating MOOCS July 2021.
6. Attended two week refresher course 21<sup>st</sup> century Environmental issues, challenges and solutions July 2021.

### **Conferences/ Workshop attended**

1. Workshop on Indian Leadership of Biotechnology among sciences 2005 by Dept of Zoology , The American college on 14Dec 2005
2. Gender awareness for career women on 11 & 12 Jan 2007 at The American College Madurai.
3. National seminar on Bioresource management an integrated approach at Fatima College on 23 & 24 July 2009.
4. Science academies lecture workshop on Recent trends in biological sciences held in The American College 21 & 22 Jan 2016
5. International conference on New horizons emerging challenges and recent paradigms in food mediated immunity and their role in human health and longevity on 31 Aug and 1 Sep 2016 at The American College
6. National conference on Coral Reefs threats and conservation by PG & Research Dept of Zoology, The American College on 12 Feb 2019
7. Science academies lecture workshop on Introduction to Modern biology on 19 to 21 Jan 2017
8. National seminar on Recent trends in Ecotoxicological research by DDE, MKU on 9Aug 2017
10. Science academies lecture workshop on Recent Trends in modern biology held in The American 23 to 2 Jan 2018
11. National conference on Emerging trends in Entomology on 7 & 8 March 2019
12. Post conference workshop Biology of butterflies by NCBS & IISER on 19 to 21 June 2018 at Kodagu Karnataka
13. National conference on Coral Reefs threats and conservation by PG & Research Dept of Zoology , The American College on 12 Feb 2019
14. Workshop on curriculum development on 21 June 2019 at Dept of Zoology, The American College , Madurai

15. Faraday Institute Madurai Course “ Science and Christian faith” 25-27 Nov 2019
16. One day workshop on Basics of Accreditation organized by AIACHE New Delhi & Bishop Heber College on Nov 30 2019
17. Endowment lecture on “Insects and Languages” at Department of Agricultural Entomology, agricultural college and Research institute Madurai on 24Jan 2020

### **Books published:**

E.Joy Sharmila and A.J.Thatheiyus (2014) Butterflies of Alagar Hills. The American College Publications, Madurai, India. 42p. (ISBN: 978-81-928661-4-7).

### **Documentary film:**

Produced a documentary film of winged wonders of The American college campus.

### **Other activities**

1. Delivered a talk on butterflies in FM rainbow radio Chennai 2016
2. Created a miniature butterfly garden in The American College campus for the conservation of butterflies.
3. Created model apiculture (Bee keeping unit) unit for the benefit of entomology students.
4. Editorial board member for International Journal of zoology and Animal Biology.
5. Recognised Ph.D supervisor in Zoology – Madurai Kamaraj University from 2017
6. Question paper setter for subjects Immunology, Genetics, Developmental biology, Animal diversity, Molecular Biology, Chordata in colleges affiliated to Madurai Kamaraj University, Bharathidasan university, Mother Teresa university, Manonmanium Sundaranar University.
7. Delivered a talk on **Butterflies and plant interaction** at The Meenakshi college Madurai on January 2020.
8. Delivered a talk on **Conservation of butterflies** at Sri Aurobindo college of Education on March 2020.
9. Delivered a lecture as **mentor** under DBT star college scheme in V.V.V college for women January 2021.
10. Delivered a talk on **butterflies** – Kanadi Malligai FM rainbow Madurai on September 2021.
11. Delivered a talk on the **importance of butterflies** in Suryan FM on September 2021.



12. Delivered a talk on **winged wonders** at Scott Christian College Nagercoil, September 2021.
13. Delivered a talk on **Jeweled Wonders** at APSA College Tirupattur, September 2021.
14. Resource person on **Winged flowers** for FDP programme at VOC college Thoothukudi on the title Recent Trends in Entomology- April 2022
15. Resource person For Gita Paul Endowment lecture on “**Butterflies as Natures Miracle**” at The Fatima College Madurai- April 2022
16. External examiner for **Academic audit** at VVV college – August 2022
17. Chairperson for the paper presentation in the international conference on Precision Nutrition and health organized by the Department of zoology, Fatima College Madurai on December 20,2022.
18. External examiner for UG & PG project presentation, Dept of zoology at Lady Doak College Madurai.
18. Doctoral committee member in the PG dept of zoology in Hajee Karutha Rowther Howdia College, Uthamapalayam- June 2022
18. Chairperson for a session on 75<sup>th</sup> year of Indian Independence- Vigyan Sarvatra Pujyate held at the American College 24 Feb 2023
18. Chairperson for a session in the International conference on Innovative approaches in Life Sciences ICIALS by the Department of Food science and Nutrition on 24 March 2023.
18. BOS member at Jayaraj Annapackiam College for women, Periyakulam 24 February 2023.
19. BOS member at St. Marys College, Tutucorin April 2023.

### **Research interests**

1. Biodiversity conservation
2. Butterfly diversity
3. Moth diversity
4. Bee keeping
5. Barcoding butterflies
6. Butterfly conservation
7. Nanostructure