

Name : Mr. H. RAGHURAM

Designation : Assistant Professor

Department : Zoology

Date of Joining : 20.09.2010

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Educational Qualification:

DEGREE	SUBJECT	COLLEGE / UNIVERSITY & PLACE	YEAR COMPLETED
Ph.D	Biology	School of Biological sciences Madurai Kamaraj University	2006
M.Sc	Integrated Biology	School of Biological sciences Madurai Kamaraj University	2001
S.E.T	Life Science	Bharathiyar University, Coimbatore	2012
B.Sc	Zoology	Madura College, Madurai	1999

Specialisation in Teaching:

Molecular Biology, Biological Chemistry, Microbiology, Human Behaviour General Zoology, r-DNA Technology

Specialisation in Research:

Ph.D – Animal Behaviour: Foraging Behaviour of bats

M.Sc - Animal Physiology, Behavioural Ecology

Research Interests:

Ecology, Microbiology, Molecular Biology & Immunology

Other Work Experience:

Designation	Institution / Company	Year - From (month/year) To (month/year)
IISC., Centenary Post Doctoral Research Associate	Indian Institute of Science, Bangalore	Feb 2007 – Apr 2007
CSIR Post-Doctoral Research Associate	Indian Institute of Science, Bangalore	May – 2007 June 2010
Guest Lecturer	School of life sciences Bharathidasan Universtiy, Tiruchirappalli	July 2010 – Sep 2010

Publications:**Books:**

Raghuram. M., Singaravelan, N., Nathan P.T., Emmanuvel Rajan K., and Marimuthu, G. (2011) Foraging ecology of pteropodid bats: pollination and seed dispersal chapter – IV. In *Bats Biology Behaviour and conservation* (Jacob L. Zupan and Sara L. Mlakar eds) Pp. 177-188 Nova science publishers, New York USA 356pp.

Lectures / Talks given:

1. How do bats catch frogs on 19.11.2004 at school of Biological sciences Madurai MKU, Madurai
2. Echolocation and resource partitioning in the Indian false vampires *Megaderma lyra* and *M. Spasma* on 28.4.2009 at National centre for Biological sciences (NCBS) Bangalore India.
3. Batting for bats (Biology and behaviour of bats) on 28.12.2011 at Ayya Nadar Janaki Ammal college, Sivakasi

Awards / Fellowships:

1. State level Best NSS (National Service Scheme) volunteer award for the year 1997-98
2. Junior Research fellowship (JRF) from the Department of science & Technology (DST) New Delhi through a research grant sanctioned of prof G. Marimuthu SBS MKU (3 yrs from October 2001 to sept 2004)
3. Research Associateship (RA) from centenary post – doc fellowship awards of Indian Institute of science Bangalore (2 months from feb 2007 – apr 2007)
4. Research Associateship (RA) from council of scientific and Industrial Research (CSIR) New Delhi (3yrs from may 2007 – June - 2010)

Other activities / academic credentials:**Annexure I****RESEARCH PUBLICATIONS OF DR. H. RAGHURAM****International Journals**

1. Ganesan, A., Raghuram, H. Nathan, P.T, Marimuthu, G. And Rajan K.E (2010) Distress call induced gene expression in the short-nosed fruit bat *Cynopterus sphinx* *Journal of Comparative physiology A*: 196 (2) 155-64
2. Nathan, P.T. Karupudurai, T. Raghuram, H and Marimuthu, G. (2009) Bat forging strategies and pollination in *Madhuca latifolia* (Sapotaceae). *Acta Chiropterologica* 11(2) 435 – 441
3. Raghuram, H, Thangadurai, C, Gopukumar, N,K, Nathar and Sripathi, K, (2009) The role of olfaction and vision in the foraging behaviour of an echolocating megachiropteran fruit bat, *Rousettus leschenaulti* (Pteropodidae). *Mammalian Biology* 74(1): 9-14
4. Raghuram, H and Marimuthu, G. (2007a) Maternal feeding of offspring with vertebrate prey in captive Indian false vampire bat, *Megaderma lyra*. *Acta Chiropterologica* 9(2) 437-443

5. Raghuram, H and Marimuthu, G. (2007b) Maternal Development of prey capture in the Indian false vampire bat *Magaderma lyra*. *Ethology* 113(6): 555-561
6. Raghuram, H. Gopukumar, N. And Sripathi, K (2007) Presence of single as well double clicks in the echolocation signals of a fruit bat *Rousettus leschenaulti* (Chiroptera: Pteropodidae) *Folia Zoology* 56(1) 33-38
7. Elangovan, V., Satya Priya, E.Y. Raghuram, H and Marimuthu, G. (2007) Wing morphology and flight development in the Indian short-nosed fruit bat *Cynopterus sphinx* *Zoology* 110(3) 189-196
8. Kanagaraj, C., Nathan P, Raghuram H, and Rajan K.E. (2007) Evolutionary dynamics of Hipposiderid bats in the Indian sub-continent *Bat Research News* 48(3): 128
9. Ratcliffe, J.M. Raghuram, H Marimuthu, G, Fullard, J.H. and Fenton, M.B. (2005) Hunting in unfamiliar space: echolocation in Indian false vampire bat, *Megaderma lyra* when gleaned prey *Behavioral Ecology and Sociobiology* 58(2) 157-164
10. Elangovan V., Raghuram, H, satya Priya, E.Y and Marimuthu, G (2004) Wing morphology and flight performance in *Rousettus leschenaultia*. *Journal of Mammalogy* 85(4) 806-812
11. Sripathi, K., Raghuram, H, Rajasekar, R, Karuppudurai, T and Abraham, S.G. (2004) Population size and survival in the Indian false vampire bat *Megaderma lyra* *Acta Chiropterologica* 6(1): 145-154
12. Elangovan, V., Satya Priya, E.Y, Raghuram, H, and Marimuthu, G (2003) Postnatal development in the Indian short-nosed fruit bat *cynopterus sphinx*: growth rate and age estimation, *Acta Chiropterologica* 5(1) 107-116

Annexure II

Research Publications of Dr. H. Raghuram

NATIONAL JOURNALS

1. Raghuram, H., Satya priya, E.Y, Marimuthu, G. And Elangovan, V. (2012) Effect of reproduction and nutritional qualities of fruits on food choice and voluntary food intake of Indian fulvous fruit bat, *Rousettus leschenaulti* (Desmarest 1820). *Proceedings of Indian National science Academy* 78(1): 1-7.
2. Raghuram, H., Balaji Chatopadhyay Thiruchenthil Nathan , P and sripathi, K (2006) Sex ratio, population structure and roost fidelity in a free-ranging colony of Indian false vampire bat *Magaderma lyra* *Current Science* 91 (7) 965-968
3. Sripathi, K., Raghuram, H and Thiruchenthil Nathan, P. (2006) Echolocation sounds of painted bat *Kerivoula picta* (Chiroptera: Vespertilionidae) *Current Science* 91 (9) 1145-1147
4. Raghuram, H and Marimuthu, G. (2005) Donald Redfield Griffin – The Discovery of Echolocation *Resonance* 10 (2) 20-32
5. Nathan, P.T., Raghuram, H. Elangovan, V, Karuppudurai, T. and Marimuthu, G (2005) Bat pollination on kapok tree, *Ceiba pentandra*. *Current Science* 88(10): 1679 – 1681
6. Raghuram, H and Marimuthu, G. (2003) Onset of gleaned during the postnatal growth of the Indian false vampire bat *Megaderma lyra*. In *Proceedings of 28th Ethological Society of India* (Annamalai, R., Narayanan, M and Vanitharani, J eds.), 93-96 Pp.
7. Elangovan, V., Raghuram, H, Satya Priya, E.Y. and Marimuthu, G (2002) Post natal growth, age estimation and development of foraging behaviour in the fulvous fruit bat *Rousettus leschenaulti* *Journal of Biosciences* 27(7): 695-701

Annexure III

PAPERS PRESENTED / PARTICIPATION IN SYMPOSIA & CONFERENCES

National

- i) Elangovan, V., Raghuram, H, Satya Priya, E.Y and Marimuthu, G. Postnatal growth and age estimation in the fulvous fruit bat *Rousettus leschenaulti*. Poster Presentation in the 26th conference of Ethological society of India, held in Madurai Kamaraj University, Madurai, India from 13.12.2000 to 15.12.2000
- ii) Raghuram, H., Elangovan, V and marimuthu, G. Food choice and foraging behaviour of Indian fulvous fruit bat *Rousettus leschenaulti*. Poster presentation in the Aqua-terr Annual Symposium held on 04.04.2001 at Madurai Kamaraj Univeristy
- iii) Raghuram, H., Elangovan, V, Satya Priya, E.Y. and marimuthu, G. Age estimation in the fulvous fruit bat *Rousettus leschenaulti*. Oral presentation 27th Conference of the Ethological society of India held during March 25- 27, 2002 at University of Kerala, Kerala. India
- iv) Raghuram, H and Marimuthu, G. Onset of gleaning during the postnatal growth of Indian false vampire bat *Megaderma lyra* oral presentation in the 28th conference of the Ethological society of India held during February 7 and 8, 2003 at Sarah Tucker College, Tirunelveli, Tamil Nadu, India.
- v) Participated in the science day and Aqua-Terr Annual symposium conducted by the school of Biological sciences, Madurai Kamaraj University, Madurai, India On 28.02.2003
- vi) Sripathi, K., Raghuram, H., Rajasekar, R, Karuppururai, T and Abraham, S.G. Population size and survival in the Indian false vampire bat *Megaderma lyra* Poster presentation in the science day and Aqua-terr Annual Symposium held on 05.3.2005 at Madurai Kamaraj University
- vii) Nathan, P.T., Raghuram, H., Elangovan, V, T. Karuppururai and Marimuthu, G. Chiropterophilly enhances fruit set in economically important kapok tree *ceiba pentandra* poster presentation in the science day and Aqua –terr Annual Symposium held on 05.03.2005 at Madurai Kamaraj University
- viii) Raghuram, H. Localization of prey by the gleaning bat *Megaderma lyra* Oral presentation in the 4th SERC School in Chronobiology held during 24.12.05-04.01.06 at Annamalai University Chidambaram, Tamil Nadu, India.
- ix) Sripathi, K., Raghuram, H and Thiruchenthil Nathan, P. Echolocation sounds of painted bat *kerivoula picta* (Chiroptera: Vespertilionidae). Poster presentation in the Science day and Aqua terr Annual Symposium held on 04.03.2006 at Madurai Kamaraj Universtiy
- x) Nathan, P.T., Raghuram, H and Marimuthu, G. Pollination of cauliflorous *Crescentia cujete* and flagelliflorous *Kigelia pinnata* by the Indian short-nosed fruit bat *Cynopterus sphinx*. In the 1st Annual Conference of the Association for Tropical Biology and Conservation – Asian Chapter held during 06.03.2007 to 08.03.2007 at Temple Bay Hotel, Mahabalipuram, Chennai, India (unable to attend)
- xi) Participated in the XIX National symposium on Chronobiology conducted by the school of Biological Sciences, Madurai Kamaraj University, Madurai, India from 07.12.2007 to 8.12.2007

- xii) Participated in the Science day and Aqua-Terr Annual Conference conducted by the school of Biological Sciences, Madurai Kamaraj University, Madurai, India on 29.03.2008.
- xiii) Raghuram, H and Marimuthu, g. Maternal feeding of offspring with vertebrate prey in captive Indian false vampire bat, *Megaderma lyra* Oral presentation in the 1st Annual Student Meet on Ecology, Evolution and Conservation science (SMEECS) held during August 20 and 21, 2008 at National Center for Biological Sciences (NCBS), Bangalore, India
- xiv) Raghuram, H and Balakrishnan, R. Bats of Kudremukh National Park Oral Presentation in the silver jubilee symposium – Ecology and the Environment in India : past present and future held during October 22-24, 2009 at the Indian Institute of Science, Bangalore, India
- xv) Participated in the one day symposium on the Idea of Evolution: A Symposium to commemorate 150 years of the Origin of Species by Charles Darwin organized by Genesis, MRDG, IISc., on 24 November 2009 at IISc., Bangalore 12.
- xvi) Raghuram, H., Jain M and Balakrishnan, R. Species diversity and echolocation calls of bats of Kudremukh National park Poster presentation in the National science day and Aqua-terr Annual Symposium held on 28.02.2011 at Madurai Kamaraj University
- xvii) Suthagar, R. and Raghuram, H Roosting in temples: Are bats safe? Poster presentation in the National Science day & 43rd Aqua-terr Annual conference on biological Sciences held on 28.02.2012 at Madurai Kamaraj University
- xviii) Participated in the National Science day and 44th Aqua-Terr Annual Conference conducted by the school of Biological Sciences, Madurai Kamaraj University, Madurai, India on 28.02.2013

International

- i) Participated in the IISc centenary Conference conducted by the Indian Institute of Science, Bangalore, India held at IISc campus from 13-12-2008 to 16-12.2008
- ii) Raghuram, H and Marimuthu, G. Mother-young relations and prey capture in Indian false vampire bats In the 3rd International Symposium of Integrative Zoology Biological consequences of global change and Darwin 200, held during July 8-10, 2009 at Beijing, China (Presented by GM)
- iii) Raghuram, H., Nathan, P.T. Karuppudurai, T and Marimuthu, G. Bat foraging strategies and pollination in *Madhuca latifolia* (Sapotaceae) oral presentation in the 5th International Canopy Conference, 2009, held during October 25-31 at Indian Institute of Science, Bangalore, India

PARTICIPATION IN WORKSHOPS & TRAINING PROGRAMMES

1. Participated in the practical Workshop on Field techniques, Taxonomy & Conservation of Bats of India and South Asia conducted by CCINSA, Coimbatore held in Madurai Kamaraj University, Madurai India from 06.07.2000 to 07.07.2000
2. Participated in the Conservation Assessment and Management Plan (CAMP) workshop for south Asian Chiroptera conducted by CCINSA, Coimbatore held in Madurai Kamaraj University, Madurai India from 21.01.2002.
3. Participated in the Practical Workshop on Field Techniques for Ecological Studies, Captive maintenance and Public Education for Chiroptera Conservation conducted by CCINSA, Coimbatore held in College, of Forestry, Kerala Agricultural University, Thirussur from 28.07.2003 to 01.08.2003.
4. Participated in the Seminar on Current Trends in Bio-Statistics conducted by department of Applied Mathematics, Madurai Kamaraj University on 01.10.2003.
5. Participated in the two-week training workshop Methods in Behavioural Ecology conducted by Centre for Ecological Sciences, Indian Institute of Science, Bangalore from 12.1.2004 to 24.01.2004
6. Participated in the two-week training Refresher Course on Animal Behaviour conducted by Department of Animal Behaviour and Physiology, School of Biological Sciences, Madurai Kamaraj University, Madurai from 8.12.2004 to 21.12.2004
7. Participated in the two-week training workshop 4th SERC School in Chronobiology conducted by the Department of Biochemistry and Biotechnology, Annamalai University, Chidambaram, Tamil Nadu, India from 24.12.2005 to 04.01.2006
8. Participated in four days Regional Training Workshop on Surveillance and Prevention of Emerging Infectious Diseases from wildlife conducted by United States Agency International Development (USAID) and PREDICT (India), Asian Nature Conservation Foundation (ANCF), Indian Institute of Science, Bangalore from 27.07.2010 to 30.07.2010.