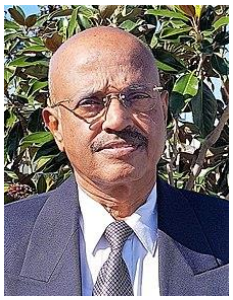

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Summary

Holding masters and two doctoral degrees. Have extensive undergraduate and graduate teaching experience in basic biological subjects as well as focussed disciplines such as Agricultural Ecology, Forestry, Ecological Entomology, Agricultural and Forest Entomology, Plant Pathology and Nematology. Have been investigating issues relative to sustainability and sustainable land management over last 15 years. Am an internationally recognized expert in the field of insect and plant interactions and the winner of the prestigious Fulbright *Award in 1990, and the* Deutscher Akademischer Austaush Dienst [DAAD] *Award, twice, in 1991 and 2003. Substantial record of research publications documented in international journals and several books and monographs. Have proven independent research abilities, a strong capability to organize and administer teaching and research projects, and critically analyze their outcomes. Have a strong commitment to the development of higher education and pedagogical processes, with highly developed written and oral communication skills. Am an effective teacher and a motivated researcher with accomplished leadership with co-operative, problem solving, and group facilitation skills, which are well supported by an extensive international work experience.*

Work Philosophy

My philosophy towards education, which becomes clearer to me with every passing cohort of students, is that *I should enable every student of mine to perform better*. Given that different kinds of limitations exist in human capabilities, I believe in enabling my students to perform better — better than the level at which they came to me at the commencement of my teaching. I am keen to make an effective and appropriate use of the instrument of education in such a way that my students know more and learn to live as socially responsible and responsive humans. To achieve this, I am convinced that concern for human beings is fundamental. I endeavour to demonstrate this concern in my teaching efforts and thereby foster it in my students. I see research as a powerful instrument that enables me to perform my role better as a teacher, because with every paper I publish and with every book I write and/or edit, my learning widens and consequently my teaching capability improves; through my sustained research activity, I also understand the needs of the world and the purposes of humans better.

Professional Experience

Charles Sturt University *July 2006–February 2020*
Orange

The University of Sydney *September 1997–June 2006*
Orange

Professor
Ecological Agriculture & Sustainable Land Management

Teaching with the Ecological Agriculture and Land Management Teams. The teams focus is on training youth to become managers with a commitment to ecologically sustainable land management practices in Australia, through pragmatic and viable undergraduate and graduate programs, including research training.

Current involvement

- Teaching undergraduate and graduate students in land and natural resource management.
- Coordinating and teaching the units *Introduction to Ecological Agriculture* and *Agricultural Ecology*. I contributed actively to the development of the Bachelor of Land Management (*Ecological Agriculture*) program, which aims at widening the management base by applying strong philosophical concepts by evoking the consciousness of the self and the role of the self in developing ecologically viable processes and practices in diverse cropping systems.
- Coordinating and teaching the unit *Research Philosophies and Methods* to all students enrolled in the Honours program.
- Coordinating and teaching the unit *Managing Agroecosystems* to coursework masters students pursuing the *Master of Sustainable Agriculture* (MSA) program, which aims at imparting mastery and managerial capabilities on applying the principles of sustainability in agricultural management. MSA enables the students to develop their own personal perception of sustainable agriculture on sound scientific principles and methodologies and to integrate their studies to ecologically sustainable agricultural production systems, business management, self-management, and social behaviour.
- Providing expert advice on aspects of ecology, plant biology, arthropod–plant interactions, plant and insect taxonomy, and plant health and resource management.
- Supervising graduate and research students (Honours: 3; PhD: 4) with the design, planning and execution of field and laboratory studies with particular reference to agricultural landscape management.
- Studying of the impact and movement patterns of arthropod populations in *Eucalyptus saligna* stands and parthenium-infested natural areas, with specific focus on the dynamics of parasitoid–herbivore–host plant interactions.
- Completed new research source book *Biological control of tropical weeds in the tropics using arthropods* in collaboration with Rangasamy Muniappan and Gadi V P Reddy (University of Guam, Guam, USA). Published by *Cambridge University Press*, Cambridge, UK in March 2009.
- Completed a research source book entitled *Biology, Ecology, and Evolution of Gall-inducing Arthropods*, in collaboration with Professor Carl W Schaefer (University of Connecticut, Storrs, USA) and Dr Toni M Withers (Forest Health, New Zealand Forest Research Institute, Rotorua, New Zealand). Published by *Science Publishers, Inc.* Enfield, New Hampshire, USA in February 2005.
- Holding research responsibilities in the areas of chemical ecology of plant-feeding arthropods and resistance–susceptibility studies pertaining to insects of hemipteroid stock. Analyzing and quantifying host plants' primary metabolites (nutrients) and the secondary

metabolites, and metabolism in relation to the feeding behaviour of insects and nutrients and energy mobilization in the host plants.

- Responsible for mentoring at least three lecturers at the university campus in Orange in research methods and in nurturing professional journal publication culture.

Charles Sturt University *July 2006–June 2009*
Orange

The University of Sydney *September 2003–June 2008*
Orange

Program Leader, Honours

- Responsible for the fourth-year honours program. Co-ordinating and teaching the unit *Research Philosophies and Methods* to all the enrolled students. *Research Philosophies and Methods* is the unit, which prepares the fourth-year undergraduate (Honours) students in learning about the fundamental philosophies that operate in mostly self-directed research efforts.
- Also responsible for the national and international promotion of the Honours program, recruitment of students, award of faculty scholarships, and liaising between potential Honours students and prospective research supervisors. Enhanced enrolments to 5 in 2004, 6 in 2005, from a 2003 statistic of 1.

The University of Madras *June 1991–November 1995*
Loyola College Campus

Professor

- Was responsible for initiating new educational programs. Teaching and research staff included five senior lecturers, four junior lecturers, and seven research assistants. The department offered BSc, MSc, MPhil, and PhD programs enrolling about 180 students.
- Supervised research of sixteen Botany and Entomology MPhil and PhD students in the broad area of Ecology and Environmental Biology.
- Worked with the Curriculum Development Centre of the University of Madras. Developed new educational programs to align course objectives with emerging job opportunities.
- Taught *Ecology and Environmental Biology*, *Plant Systematics* to second and third year undergraduate students. Taught *Forestry* and *Insect–Plant Interactions* to postgraduate students.
- Extensive experience in laboratory and fieldwork relative to the courses taught. Have led students on field excursions to provide firsthand field skills and knowledge.
- Highly experienced in microscopic and histological techniques. Total mastery over light and electron microscopy, microtomy including cryomicrotomy and ultramicrotomy, histo- and cytochemical procedures.

Major Research Grants

1. **Department of Agriculture, Fisheries, and Forestry (Government of Queensland):** 'Relevance of *Prodiplosis longifila* (Diptera: Cecidomyiidae) in the management of populations of *Jatropha curcas* (Euphorbiaceae)'. Total support: $ 50,000 (Period 2014–2017).
2. **CSU *Green* + Rural Management Research Institute [RMRI]: '**Soil arthropod diversity in isolated shade trees in the Orange CSU campus,' Total outlay: $7500 (Period 2014—2015).
3. **Newcrest Mining Limited:** New project**:** 'Computational modelling of phytoremediation at the leachate ponds in Cadia gold mine, Orange.' Total support: $ 25,000 (Period 2012–2014).
4. **Department of Employment, Economic Development and Innovation (Government of Queensland): '**Nutritional physiology of *Anomalococcus indicus* (Insecta: Coccoidea) infesting *Acacia nilotica* (Mimosacae) and the biological control potential of *A. indicus* in regulating weedy populations of *A. nilotica* in tropical Australia'. Total support: $20,000 (Period 2011–2013).
5. **Rural Management Research Institute [RMRI]:** New project: 'Ecology of soils in Summer Hill subcatchment'. Total outlay: $ 15,000 (Period: 2012–2013).
6. **Rural Management Research Institute [RMRI]:** Ongoing project: 'Chemical ecology of endophytic fungus—grass—Scarabaeidae interactions'. Total outlay: $ 90,000 (Period: 2008–2011).
7. **Cadia Valley Operations [CVO]:** Completed project 'Restoration ecology of degraded mine sites'. Total outlay: $15,000 (Period: 2008–2009).
8. **Rural Industries Research Development Corporation [RIRDC]**: Completed project 'Farm trees: enhancing biodiversity, nature conservation and natural pest control' (US 117A) Total outlay: $100,000. (Period: 2002–2008).
9. **Cotton Catchment Communities CRC:** Completed project 'Ecologically-based pest management for Macquarie region cotton production'. 2006: $32,000, 2007: $32,000, 2008: $32,000 (Period 2005–2009).
10. **Little River Catchment Authority, Molong, Central West New South Wales:** Completed project 'Allelopathy of phalaris grass, a pasture species in Little River Catchment Area'. $ 5,000 (Period: 2007).
11. **CRC Biosecurity:** Compelted project 'Molecular diagnostics of Scarabaeidae infesting pastureland in central-west NSW'. 2006: $5,000 (Period 2006–2006).
12. **Department of Natural Resources & Mines (Government of Queensland):** Completed project 'Assay of the efficacy of *Epiblema strenuana* (Lepidoptera: Tortricidae) and *Conotrachelus albocinereus* (Coleoptera: Curculionidae) in the biological control of *Parthenium hysterophrous* (#NRM/185/001:1221:BV:IT). Total outlay: Au$ 90,200 (Period: 1999–2002).
13. **Ministry of Environment and Forests (Government of India):** Completed the major project 'Biodiversity evaluation and monitoring strategies of the predatory and parasitic insects in agroforestry stands in southern India'. Total outlay: *c*. US$ 50,000 (Period: 1993–1996).
14. **Ministry of Science & Technology (Government of India):** Completed the major project 'Bioecology and behaviour of gall-inducing Hemiptera and the morphogenesis of their galls'. Total outlay: *c.* US$ 82,000. (Period: 1991–1994).

Research Travel Grants, Awards, and Recognitions

2016 **Agricultural Innovation Research Excellence Award**. Charles Sturt University & Graham Centre for Agricultural Innovation, Wagga Wagga, New South Wales, Value Au$ 2500.

2015 **Agricultural Innovation Research Excellence Award**. Charles Sturt Unievrsity & Graham Centre for Agricultural Innovation, Wagga Wagga, New South Wales, Value Au$ 2500.

2014 **Agricultural Innovation Research Excellence Award**. Charles Sturt Unievrsity & Graham Centre for Agricultural Innovation, Wagga Wagga, New South Wales, Value Au$ 2500.

2013 **Agricultural Innovation Research Excellence Award**. Charles Sturt Unievrsity & Graham Centre for Agricultural Innovation, Wagga Wagga, New South Wales, Value Au$ 2500.

2009 **Faculty of Science Research Excellence Award.** Charles Sturt University, Vice-Chancellor's Office, Bathurst, New South Wales. Value: Au$ 2000.

2008 **Australian Academy of Science Visiting Professorship.** To visit National Chung Hsing University (Department of Entomology), Taichung 40227, Taiwan to study the nutritional ecology of insects invading *Machilus thunbergii* (Lauraceae). Value: Au$ 7,500.

2007 **M S Mani Centenary Award.** Entomology Academy of India, in recognition of the multiple contributions to Indian Cecidology in the last 25 years. Value: A silver plaque and a citation.

2006 **University of Guam Visiting Grant.** Visited the Agricultural Experiment Station, The University of Guam, Guam, USA to study the biology and oviposition behaviour of *Acythopeus burkhartorum* (Coleoptera: Curculionidae) infesting *Coccinia grandis* (Cucurbitaceae), an invasive weed in Guam. Value: Au$ 8,000.

2003 ***Deutsche Akademischer Austaush Dienst (DAAD)*** **Visiting Lectureship.** Visited the *Heidelberg Institut für Pflanzenwissenschaften*, Ruprecht–Karls Universität, Heidelberg, Federal Republic of Germany to study (1) the aseptic dual culture technique using *Pemphigus* (Homoptera: Aphididae) and its primary host *Populus* and secondary host *Taraxacum* (2) hypersensitive responses among species of *Vitis* to infestations of *Daktulusphairia vitifoliae* (Homoptera: Aphididae). Value: Au$ 10,000.

2000 **Ian Potter Foundation Distinguished Scholar Grant.** Visited the Beadle Centre, University of Nebraska, Lincoln, to evaluate the nutrient mobilization in the moth-induced galls of the parthenium weed using stable isotope mass spectrometry. Value: Au$ 5000.

1999 **JEOL–Electron Microscope Key Centre Grant.** To visit and work at the Electron Microscope Unit, The University of Sydney, Sydney to evaluate the impact of a moth and a weevil in the biological control of parthenium weed. Value: Au$ 1000.

1999 **Royal Society of New Zealand Research Grant.** To visit Forest Health Research Division, New Zealand Forest Research Institute, Rotorua. Worked on the biology and behaviour of a hymenopteran wasp impacting on the productivity and biomass of the timber species, *Eucalyptus saligna*. Value: Au$ 5000.

1995 **State Forests of NSW Research Fellowship.** To complete the research project 'Long-term logging impact on faunal changes' Value: Au$ 12,000.

1991 ***Deutscher Akademischer Austaush Dienst (DAAD)*** **Grant.** To visit and collaborate with Professor Rolf Beiderbeck the Botanisches Institut, Rurpecht–Karls Universität, Heidelberg, Federal Republic of Germany, and to work on the protocol for raising plant-feeding insects on aseptically-grown tissue callus of its host plant, using *Trialeyrodes–Stellaria* system.

1990 **Fulbright Grant.** To visit and collaborated with Professor Warren G. Abrahamson, Department of Biology, Bucknell University, Lewisburg, Pennsylvania, USA and to work on population ecology and evaluated energetics using the *Solidago–Rhopalomyia* system.

1980 ***Indo-French Cultural Exchange Pre-doctoral Scholarship.*** To visit and work with Dr Odette Rohfritsch, Dr Evelyn Westphal, and Dr Roberte Bronner at the Institut de Botanique, Université Louis Pasteur, Strasbourg, France. Worked on the fine structure and physiology of the nutritive tissues for infesting thrips (Thysanoptera: Phlaeothripidae) on different flowering plants.

Visiting Lectureships

Global Initiative for Academic Networks *March 2019*
The University of Calicut
Calicut, India
Ministry of Human Resource Development
Government of India
New Delhi

Directed and conducted the training program for post-graduate and graduate students on the theme, 'Chemical and molecular ecology of insect–plant interactions: towards ecological sustainability', The Department of Zoology, Calicut University, Calicut, India (26 February 2019–4 March 2019).

Indian National Science Academy (INSA) *July 2018*
New Delhi

Invited by the prestigious INSA, New Delhi, was awarded Professor Vulimiri Ramalingaswami Chair professorship. As a part of this visiting professorship, lectured at and conducted workshops in various Indian universities.

7th International Symposium on Cecidology *March 2018*
Huisun Experimental Forest Station, Nantou Country
Taiwan

Delivered the keynote address, 'Visionary words and realistic achievements in Cecidology'

The University of Calicut *June 2017*
Calicut, India

Delivered the T. C. Narendran Memorial Endowment Lecture, 'Clever insects, exquisite galls'. Invited and hosted by T. C. Narendran Endowment Committee, c/- The Department of Zoology, Calicut University, Calicut, India.

XXV International Congress of Entomology *September 2016*
Orlando, Florida

Convened the symposium, 'Host relations of gall-inducing insects' on 30 September 2016. Delivered the keynote address.

Federation University of Australia
Ballarat, VIC *September 2014*

Delivered two seminars: 'Biological control of invasive weeds: use of gall-inducing arthropods'; 'Rehabilitation of metal-contaminated wetland sites in Central-West NSW'. Invited and hosted by Associated Professor S K Florentine, Federation University of Australia, Ballarat, Victoria.

Dubbo City Council
Dubbo, NSW *August 2014*

Delivered a special talk 'Sustainable development in urban landscapes' at the Dubbo Sustaniability Expo.

Madurai Kamaraj University *January 2012*
Lady Doak College
Madurai, India

Delivered the invited plenary talk 'Ecological management of agriculture in 21st century India — sustainability, rice production, and southern India', at the *International Conference on Science, Society, and Sustainability* (11-13 January 2012), hosted by Principal Mercy Pushpalatha.

Madurai Kamaraj University *January 2012*
Thaigarajar College
Madurai, India

Conducted a workshop: 'Research methods' for post-graduate students. Invited and hosted by Dr M Eyini, Director, College Development Council, Thiagarajar College, Madurai Kamaraj University, Madurai, India.

University of Western Australia *May 2009*
Perth, Australia

Delivered a seminar: 'Ecology of gall-inducing insects and their usefulness in the biological control of weeds'. Invited and hosted by Dr Helen Spafford–Smith, University of Western Australia, Crawley, WA, Australia.

Bharatidasan University *January 2009*
Tiruchirapalli, India
Delivered the 1st K V Krishnamurthy Endowment Lecture: 'Biodiversity of gall-inducing arthropods in India'. Invited and hosted by Professor Narayanaswamy Balagopal, Director, Institute of Plant Biology and Biotechnology, Bharatidasan University, Tiruchirapalli, India.

Bharatiyar University *January 2009*
Coimbatore, India
Delivered the special invited lecture: 'Linkages and partnerships between universities and industries — opportunities and threats' in the international conference *Industrialization of Institutional Research on Phytomedicines* held at PSGR Krishnammal College for Women campus, Coimbatore, India. Invited and hosted by Professor K Vasantha, Head of the Department of Plant Biology and Biotechnology, PSGR Krishnammal College for Women, Coimbatore, India.

Taiwan Forestry Research Institute *January 2008*
Taipei, Taiwan
Delivered a seminar: 'The gall problem: the insect factor'. Invited and hosted by Dr Hen-Biau King, Director, Taiwan Forestry Research Institute, Taipei, Taiwan.

National Chung Hsing University *January 2008*
Taichung, Taiwan
Delivered a seminar at the Department of Entomology: 'Radiation among gall-inducing arthropods on *Mangifera indica*'. Invited and hosted by Associate Professor Man-Miao Yang, National Chung Hsing University, Taichung, Taiwan.

University of Delhi *December 2007*
Delhi, India
Delivered the 18th C P Alexander Memorial Lecture at the Department of Zoology: 'The gall problem: the insect factor'. Invited and hosted by Professor Ashok Kumar Singh, University of Delhi, Delhi, India.

Entomology Academy of India *December 2007*
Madras, India
Delivered the 1st M S Mani Centenary Address: 'Radiation among the gall-inducing Cecidomyiidae (Insecta: Diptera) and Calophyidae (Insecta: Hemiptera) on *Mangifera indica*'. Invited and hosted by Professor T N Ananthakrishnan, President, Entomology Academy of India.

University of Guam *January 2006*
Guam, USA
Delivered a special lecture at the Agricultural Experiment Station (AES): 'Gall-inducing Insects and Weed Biological Control'. Invited and hosted by Professor R N Muniappan, Professor Emeritus, AES, The University of Guam, Guam, USA.

The University of Madras *December 2005*
Madras, India
Delivered the Todla Ekambaram Endowment Lecture at the Centre for Advanced Studies in Botany: 'Insects, Fungi, and Vascular Plants'. Invited and hosted by Professor N Anand, Director, Centre for Advanced Studies in Botany.

Ruprecht–Karls Universität *February 2003*
Heidelberg, Federal Republic of Germany
Delivered a seminar at the *Heidelberg Institut für Pflanzenwissenschaften* on 'Australia's Living Wealth'. Invited and hosted by Professor Rolf Beiderbeck.

Ruprecht–Karls Universität *January 2003*
Heidelberg, Federal Republic of Germany
Delivered an invited lecture at the *Süd–Asien Institut* on 'Gandhi and his Environmental Perspective'. Invited and hosted by Professor Gita Dharampal-Frick.

University of Nebraska *October 2000*
Lincoln, USA
Delivered a lecture at the Beadle Center, Department of Biochemistry on 'Biodiversity and Conservation Efforts in Australia'. Invited and hosted by Dr S Madhavan.

North Dakota State University *October 2000*
Fargo, USA
Delivered a lecture at the Department of Entomology on 'Insect and Plant Interactions–The Gall Factor'. Invited and hosted by Associate Professor Marion O Harris.

New Zealand Forest Research Institute *March 1999*
Rotorua, New Zealand
Delivered a lecture at the Division of *Forest*Health on 'Insect-induced Plant Galls'. Invited and hosted by Dr Toni Withers.
Conducted a workshop on 'Histochemical Techniques' for the scientists at the Division of *Forest*Health.

Tropical Weeds Research Institute *December 1998*
Queensland Department of Natural Resources
Charters Towers, Queensland, Australia
Delivered a lecture on 'Biological Control of Weeds with Gall-Inducing Arthropods'. Invited and hosted by Dr K Dhileepan.

Charles Sturt University *April 1997*
Bathurst, NSW, Australia
Delivered three lectures in the Environmental Studies Unit on Aspects of Insect–Plant Interactions. Invited and hosted by Professor David Goldney and Dr John Beard.

Banares Hindu University *October 1995*
Varanasi, India
Delivered the Madanmohan Malavya Oration on 'Insect and Plant Interactions'.

Ruprecht–Karls Universität *January 1991*
Heidelberg, Germany
Addressed Graduate Students and Biology Faculty Seminar: 'Floristic Diversity in Southern India'.

Bucknell University *September 1990*
Lewisburg, Pennsylvania, USA
Presented seminars at the Department of Biology: (1) Morphogenesis and Physiology of Two Subtropical Gall Systems; (2) Floristic Diversity in Peninsular India.

Current Research Collaborators within Australia and Overseas

Dr Gadi V P Reddy The University of Montana, Grand Falls, USA. Weed management–biological control initiatives.

Professor Rolf Beiderbeck, Botanisches Institut, Ruprecht–Karls Universität, Heidelberg 69120, Federal Republic of Germany. Dual aseptic culture technology.

Dr Daniel M Burckhardt, Entomologie, Naturhistorisches Museum Basel, Augustinergasse 2, Postfach CH-4001 Basel, Switzerland. Adaptive radiation of *Apsylla cistellata* (Hemiptera: Psylloidea: Calophyidae).

Dr K Dhileepan, Alan Fletcher Research Station, Department of Natural Resources and Mines, Sherwood, QLD 4075, Australia. Biological control of *Parthenium hysterophorus* using a gall-inducing moth and a gall-inducing weevil.

Dr Geoff M Gurr, Charles Sturt University, Orange, NSW 2800, Australia. Conservation biological control in alfalfa (*Medicago sativa*) crop systems; arthropod biodiversity in shelterbelts; predatory and parasitic arthropods in cotton ecosystems.

Dr S K Florentine, Federation University of Australia, Ballarat**.** Biological control of *Acacia longifolia* with *Trichiligaster longifoliae* (Hymenoptera: Pteromalidae).

Dr Keith M Harris, former Director, International Institute of Entomology, 56 Queen's Gate, London SW7 5JR, UK. Mango-infesting cecidomyiids biodiversity and cecidomyiids infesting Indian wattles.

Professor S Madhavan, The Beadle Center, Department of Biochemistry, The University of Nebraska, Lincoln, Nebraska, USA. Stable isotope ratio analysis of parthenium nutrient mobilization.

Dr Man-Miao Yang, Department of Entomology, National Chung Hsing University, Taichung, Taiwan. Nutritional ecology of five species of *Daphnephila* (Diptera: Cecidomyiidae) infesting *Machilus thunbergii* (Lauraceae).

Emeritus Professor Rangaswamy N Muniappan, The University of Guam, Mangilao, Guam, USA. Tropical weed management–biological control initiatives. Co-edited the book, *Biological control of tropical weeds using arthropods***.** Cambridge University Press, Cambridge, UK. (March 2009).

Professor Laurence A Mound, CSIRO, Canberra, ACT 2601, Australia. *Acacia stowardtii* – thrips interactions.

Dr Gadi V P Reddy The University of Guam, Mangilao, Guam, USA. Tropical weed management–biological control initiatives. Co-edited the book, *Biological control of tropical weeds using arthropods***.** Cambridge University Press, Cambridge, UK. (March 2009)

Professor Carl W Schaefer, Department of Ecology and Evolutionary Biology, The University of Connecticut, Storrs, Connecticut, USA. Co-edited the book, *Biology, Ecology, and Evolution of Gall-Inducing Arthropods,* Science Publishers, Inc., Enfield, New Hampshire, USA. (February 2005).

Dr Gary S Taylor, Department of Crop Protection, Waite Institute, The University of Adelaide, Glen Osmond, SA 5064, Australia. *Eucalyptus cosmophila – Trioza eucalypti* interactions.

Dr Toni M Withers, *Forest*Health, New Zealand Forest Research Institute, Rotorua, New Zealand. *Eucalyptus saligna–Ophelimus eucalypti* interactions. Co-edited the book, *Biology, Ecology, and Evolution of Gall-Inducing Arthropods*, Science Publishers, Inc., Enfield, New Hampshire, USA. (February 2005).

International Visitors and Post-doctoral Associates

2014 Received **Perumal Ravichandran** (Professor of Environmental Science, Manonmaniyam Sundaranar University, Tirunelveli, India), to discuss biological diversity and conservation of critically endangered medical plants. Visit period: November 2014.

2012 Received **Sreenath Subrahmanyam** (Research Associate, Cranfield Unievrsity, Cranfield, UK) as an Endeavour postdoctoral associate and supervised his research on the topic: 'Computational modelling of phytoremediation efforts at the artificial wetland created in the gold mine at Orange (Cadia Valley Operations). Visit period: May—October 2012.

2011 Received **Jérémy Lopez** year-I master student at *l'École Nationale Superieure d`Agronomie et des Industries Alimentaires* (ENSAIA), Nancy, France and supervised his research on the topic: 'Measurement of arthropod and fungal biodiversity and microbial respiration in soils managed under time-controlled and set-stocked grazing practices: characterization of soil health'. Visit period: March–June 2011.

2010 Received **Margot Moulin** year-I master student at *l'École Nationale Superieure d`Agronomie et des Industries Alimentaires* (ENSAIA), Nancy, France and supervised her research on the topic: 'Measurement of arthropod and fungal biodiversity and microbial respiration in soils managed under time-controlled and set-stocked grazing practices: characterization of soil health'. Visit period: September–December 2010.

2009 Received **Swami Ãtmapriyananda** (Vice-Chancellor, *Ramakrişna Mission Vivékananda* University, Calcutta, India). To discuss teaching of holistic agriculture. Visit period: December 2009.

2005 Received **Professor Raman Sukumar** (Chairman, Centre for Ecological Sciences, The Indian Institute of Science, Bangalore, India). To discuss future research collaboration in issues relative to 'Wildlife–human conflicts'. Visit period: April 2005.

2004 Received **Professor David Martin** (Professor of Environmental Economics, Davidson College, Davidson, North Carolina, USA). To discuss future research collaboration in value-added agroforestry and plantation forestry in enhancing biological diversity in conventional agricultural landscapes. Visit period: December 2004.

2004 Received **Professor David Wool** (Professor of Zoology, George S Wise Center for Life Sciences, Tel Aviv University, Ramat-Aviv, Israel) to discuss host-plant responses to gall-inducing aphids and future research collaboration. Visit period: September 2004.

2004 Received **Dr George C Abraham** (Reader in Biology, The American College, Madurai Kamaraj University, Madurai, India). To study teaching and learning practices followed in the bachelors program of Land Management and Ecological Agriculture in the University of Sydney, Orange campus, NSW. Visit period: May 2004.

2001 Received **Dr S Madhavan** (Biochemist, Beadle Center, The University of Nebraska—Lincoln, Nebraska, USA). To finalize the manuscript on the *Epiblema strenuana* (Coleoptera)–*Parthenium hysterophorus* stable isotopic studies. Manuscript submitted to *Entomologia Experimentalis et Applicata*. Visit period: May 2001.

2000 Received **Dr Toni M Withers** (Entomologist, New Zealand Forest Research Institute, Rotorua, New Zealand). To finalize the manuscript on the *Ophelimus* (Hymenoptera) – *Eucalyptus saligna* interactions. Results published in the *Bulletin of Entomological Research.* Visit period: February–March 2000.

1999 Received **Dr Singarayar K Florentine** (Research Officer, Tropical Weeds Research Institute, Department of Natural Resources, Government of Queensland, Charters Towers). Worked on the electron microscopy, qualitative and quantitative physiology of response of the weed, *Parthenium hysterophorus* to biological control agents. Results published in *Entomologia Generalis.* Visit period: May–August 1999.

Graduate Research Student Supervision

Charles Sturt University *September 1997–Present*
Orange

- Sunita Pandey, PhD Program, 'Habitat management using native Australian plants to deliver pest suppression and other ecosystem services in brassica crops'. Commenced March 2016; proposed completion March 2019.
- Blankson Amoebang, PhD program, 'Ecosystem services from crop margin vegetation: benefits for cabbage pest management'. Commenced March 2016; proposed completion March 2019.
- Saad N. al-Habsi, Masters Dissertation. 'A comparison of arthropod populations in organically and conventionally managed vineyards in New South Wales, Australia'. Commenced November 2015; successfully completed June 2016.
- Robyn Provost, Honours. 'The role of isolated paddock trees in enhancing soil health in pasture landscapes'. Commenced February 2014; successfully completed October 2015.
- Chris Radcliffe, Doctor of Sustainable Agriculture program. 'Knowledge, learning and culture: seeking agricultural sustainability among indigenous farmers in PNG, Australia and Niger'. Commenced March 2013; proposed completion November 2017.
- Saiful M Bhuyian, PhD program, 'Phytormediation of salinity afflicted sites in central west NSW'. Commenced July 2012; successfully completed March 2016.
- Syed Rizvi, PhD program, Tripartite interactions among grapevine, light brown apple moth, and powdery mildew'. Commenced July 2012; successfully completed March 2016.
- Anwar Nawaz Khan, MPhil program, Nutritional physiology of *Anomalococcus indicus* (Insecta: Coccoidea) infesting *Acacia nilotica* (Mimosacae) and the biological control potential of *A. indicus* in regulating weedy populations of *A. nilotica* in tropical Australia. Commenced 2011; completed 2014.
- Anamika Sharma, PhD program, 'Molecular ecology of psyllid—eucalypt interactions'. Commenced 2011; successfully completed February 2015.
- Benjamin Gleeson, 'Augmenting the natural sequence: ecological rehabilitation of an incised agricultural floodplain near Orange, NSW.' Commenced 1 July 2012; successfully completed 31 July 2013.
- Allan A Adams, PhD program, 'Restoration ecology of wetlands in the Cadia gold mine'. Commenced 2010; successfully completed 2014.
- Abdulqader Qawasmeh, PhD program, 'Chemical ecology of *Neotyphodeum*—tall fescue—Scarabaeidae interactions'. Commenced 2008; successfully completed 2012.
- Kris Lemottee, MPhil program, 'Biology and ecology of *Hippodamia variegata* and *Micromus tasmaniae*, biological-control agents for arthropod pests of field vegetable crops, tested under green house conditions'. Commenced 2007; successfully completed 2010.
- Viliami Heimoana, PhD program, 'Potential of *Hippodamia variegata* (Coleoptera: Coccinellidae) and *Micromus tasmaniae* (Neuroptera: Hemerobiidae) as biological control agents for arthropod pests of field vegetable crops'. Commenced 2006; successfully completed 2010.

- David Perović, PhD program, 'Do landscapes surrounding cotton crops significantly affect conservation biological control within crops?' Commenced 2006; successfully completed 2010.
- Vanessa Connick, Honours program, 'Metal uptake by pasture-potential plants at Cadia Hill gold mine tailings rehabilitation site'. Commenced January 2008; successfully completed March 2009.
- Jeremy Marriot, Honours program, 'Efficiency of gorse spider mite (*Tetranychus lintearius*) in the biocontrol of gorse (*Ulex europaeus* L.), University of Ballarat, Ballarat, Victoria. Commenced August 2007; successfully completed July 2009 (Associate supervisor).

The University of Sydney *September 1997–Present*
Orange

- Sagrario Virués-Gaméz, PhD program, 'Arthropods biodiversity in shelterbelts'. Commenced 2005; successfully completed 2008.
- Allan Adams, Honours program,'Measurement of allelopathic effects of *Phalaris aquatica* on *Phalaris aquatica*, *Nassella trichotoma, Themeda triandra*, and *Trifolium subterraneum'*. Commenced January 2007; successfully completed February 2008.
- Kelly Rigg, Honours program,: 'Molecular methods for the discrimination and diagnosis of white grubs (Scarabaeidae) in NSW'. Commenced January 2006; successfully completed December 2007.
- Megan McIntyre, Honours program, 'Sustainable agriculture: exploring the reasons for alternative farming practices'. Commenced January 2005; successfully completed June 2006.
- Małgorzata (Margaret) Bronicka, Honours Program, 'Biodiversity of fungi in salinity afflicted Gumble (NSW)'. Commenced June 2005; completed June 2006.
- Nisha Tom, Honours program, 'Arthropod and earthworm biodiversity and measurement of land productivity in the pastureland with sheep stocked in high and low densities over long term at the Narrambla site (NSW, Australia)'. Commenced March 2004; successfully completed February 2005.
- Geoff Bakewell, Honours program, 'Patterns of root regeneration in species of wattles (*Acacia,* Leguminosaceae) in the restoration and rehabilitation practice of sandy coast in northern NSW, Australia'. Commenced March 2003; completed June 2005.
- Birgit Holger-Löcker, PhD program, 'Taxonomic studies of cave-inhabiting Jassidae (Insecta: Hemiptera)'. Commenced January 2002; successfully completed June 2006 (Mentor).

The University of Madras *June 1991– November 1995*
Loyola College campus

- T Masilamani, PhD program, 'Biology and ecology of gall-inducing mites (Acarina: Eriophyioidea) from southern India and developmental morphology of their galls'. Commenced 1992; successfully completed October 1995.

- K Gopinathan, PhD program, 'Biology and ecology of gall-inducing thrips (Thysanoptera Phlaeothripidae) from southern India and developmental morphology of their galls'. Commenced 1991; successfully completed July 1994.

Professional Service

- Subject editor, member of the editorial boards of more than 12 professional journals. *E.g.*, *Journal of Plant Interactions*, *Oriental Insects* (Taylor & Francis), *Flora* (Elsevier).

- Organizer of the Symposium 'Host relations of gall-inducing insects' at the XXV International Congress of Entomology, Orlando, Florida, September 23—30, 2016.
- Guest editor of the special issue of *Oriental Insects*, an Associated Publishers, Gainesville, Florida publication for the publication of the special issue: 'Biogeography and phylogeny of Oriental and Eastern Palearctic species of gall-inducing insects'. August 2007.
- Organizer and Convener, Symposium: *Biology and Ecology of Gall-inducing Insects*. XXII International Congress of Entomology, Brisbane, Australia (2004).
- Guest editor of the special single issue of *Basic and Applied Ecology [Gesellschaft für Ökologie]*, an Elsevier publication for the publication of the nine oral presentations made at the Symposium: *Biology and Ecology of Gall-inducing Insects*. XXII International Congress of Entomology, Brisbane, Australia (2004). Published July 2005.
- Subject Editor, *The Journal of Plant Interactions*, Taylor & Francis, London, 2017—2020.
- Subject Editor, *International Journal of Ecology and Environmental Sciences,* National Institute of Ecology, New Delhi, 1998–2003; 2003–2009; 2009–2013, 2013--date.
- Subject Editor, *Oriental Insects*, Taylor & Francis, London, 2003–2007; 2008–2012; 2012--date.
- Subject Editor, *Flora*, Wiley, Germany, 2014—2020.
- Subject Editor, *International Journal of Mining, Reclamation and Environment*, Taylor & Francis, London, 2014–2020.
- Subject Editor, *Entomon*, Trivandrum, India, 2017—2020.
- Subject Editor, *Environmental Biotechnology*, Olsztyn, Poland, 2017—2020.
- Reviewer and adviser for several professional entomological and chemical ecological journals. Rendered professional service in this capacity to the following journals in the last 3 years:
    - *Acta Physiologia Plantarum*
    - *Acta Oecologica*
    - *Allelopathy Journal*
    - *American Naturalist*
    - *Anais da Academia Brasileira de Ciências*
    - *Annals of the Entomological Society of America*
    - *Asian Journal of Biology Education*
    - *Australian Journal of Botany*
    - *Australian Journal of Entomology*
    - *Australian Journal of Grape & Wine Research*
    - *Basic and Applied Ecology*
    - *BioControl*
    - *Biologia*
    - *Biotropica*
    - *Botanical Journal of the Linnean Soceity*
    - *Chiang Mai Journal of Science* (Official journal of Faculty of Science, Chiang Mai University, Thailand)
    - *Current Science*
    - *Entomologia Experimentalis et Applicata*
    - *Entomologia Generalis*
    - *Environmental Biotechnology*
    - *Environmental Engineering & Management Journal*
    - *Environmental Entomology*
    - *Fungal Diversity*
    - *Flora*
    - *Florida Entomologist*
    - *Global Climate Change*

- *International Journal of Mining, Reclamation, and Environment*
- *International Journal of Molecular Sciences*
- *International Journal of Plant Sciences*
- *Journal of Biosciences*
- *Journal of Entomology*
- *Journal of Forestry Research*
- *Journal of Insect Physiology*
- *Journal of Pharmacognosy & Phytotherapy*
- *Journal of Plant Interactions*
- *Journal of the Kansas Entomological Society*
- *Micronesica*
- *Nature Scientific Communications*
- *Naturwissenschaften*
- *New Zealand Journal of Agricultural Science*
- *Online Ecology Journal, The*
- *Oriental Insects*
- *Pedosphere*
- *Plant Biology*
- *Plant Ecology*
- *Plant Science*
- *Plant Protection Science*
- *Pesquisa Agropecuária Tropical*
- *Proceedings of the Entomological Society of Washington*
- *Psyche*
- *Revista Colombiana de Entomologia*
- *Scientia Horticulturae*
- *Sydowia.*
- *The Natural Products Journal*
- *The Plant Research Journal*
- *Zootaxa*

- Reviewer and adviser for Cambridge University Press, Cambridge, UK.
- Reviewer and adviser for the Qatar National Research Fund, Doha, Qatar.
- Reviewer and adviser for Abteilung 40—Bildungsförderung, Universität, und Forschung, Autonome Provinz Bozen, Südtirol, Italy.
- Reviewer and adviser for Kluwer–Springer Scientific Publishers (Entomology and Plant Pathology), Dordrecht, The Netherlands.
- Reviewer and adviser for *Encyclopaedia of Plant and Crop Science*, published by Taylor & Francis Group (Marcel Dekker), New York, USA.
- Reviewer for research projects from IUFRO, FAO.
- Reviewer Australia–India Strategic Research Fund (DEST).
- Reviewer for Australian Research Council Fund.

University and Community Committees

- Member, Orange Environmental Sustainability Community Committee, Orange City Council, Orange, NSW (2012—2014, 2014—2016, 2017--2020).
- Member, Parks and Street Trees Community Committee, Orange City Council, Orange, NSW (2014--2018).
- Chair, Orange Botanic Gardens Research and Education Development Subcommittee (2014).

- Member, Orange Botanic Gardens Community Committee, Orange City Council, Orange, NSW (2011—2012, 2012—2014, 2014—2016, 2017--2020).
- Member, Faculty Honours Committee, Faculty of Science & Agriculture, Charles Sturt University, Wagga Wagga, NSW (2006—2007).
- Member, Orange Campus Conference Support Scheme Evaluation and Selection Committee, The University of Sydney, Orange (June 2005)
- Chair, Postgraduate Research Support Scheme [PRSS] Evaluation and Selection Committee, The University of Sydney, Orange (May 2005).
- Chair, Orange Campus Seminar Program, Charles Sturt University, Orange (2005-2007).
- Member, Rural Management Research Institute Management Committee, The University of Sydney, Orange (2005–2008).
- Member, Board of Studies, Charles Sturt University, Orange (2004–2007).
- Adviser, Southern Highlands Viticultural Society, Murrumbateman, NSW (2004–2006).
- Member, Working Party to develop the New Coursework Master's Program in 'Sustainable Landscape Management' at the University of Sydney—Orange Campus (2002–2004).
- Member, Working Party to develop the New Course in 'Ecological Agriculture' at the University of Sydney—Orange Campus (1999–2000).
- Member, Working Party to develop the New Coursework Master's Program in 'Sustainable Agriculture' at the University of Sydney—Orange Campus (1999–2000).
- Member, Orange Museum Development Plan, Orange City Council, Orange (2000).
- Member, Technology Diffusion Program, NSW State and Regional Development Board, Orange (1999-2000).
- Member, Environment Cell, Ministry of Human Resource Development, Government of India, (1994–1997).
- India Correspondent, Worldwatch Institute, Washington DC, USA, (1991–1996)
- Member, Board of Management, Society for Research and Development in Social Forestry, Madras, India, (1993–1996).
- Member, Award Committee, Lourdu Yeddanapalli award for excellence in research, Loyola College (The University of Madras), Madras, India (1987–1990; 1991–1994).

Professional Publications (1995—2016)

Books and Special Issues of Journals

Muniappan R, Reddy G V P, **Raman A** [Editors] (2009) *Biological Control of Tropical Weeds using Arthropods*. Cambridge University Press, Cambridge, UK. 495+xii pages (ISBN: 978–0–521–87791–6; hardback)

Raman A Gupta VK [Guest Editors] (2007) *Biogeography and Phylogeny of Oriental and Eastern Palearctic species of Gall-inducing Insects*. Special Issue of *Oriental Insects*, 41: 1–239.

Raman A J Nimmagadda (2006) *A Handbook of Research Process*, Macmillan India, New Delhi, India. 172+xi pages.

Wool D, Shorthouse JD, **Raman A** [Guest Editors] (2005) *Adaptive Radiation in Gall-inducing Insects* (Proceedings of the Symposium 'Ecology and Evolution of Gall-inducing Insects', organized during the XXII International Congress of Entomology, Brisbane, Australia. Special Issue of *Basic and Applied Ecology* 6: 407–488.

Raman A, Schaefer CW, Withers T M (2005) [Editors] *Biology, Ecology, and Evolution of Gall-inducing Arthropods* [2 Volumes]. Science Publishers, Inc., Enfield, New Hampshire, USA. 817+xxi pages.

Beiderbeck R, **Raman A** [Guest Editors] (1999) *Biology and Behaviour of Phytophagous Arthropods in Synthetic Environments*. Special Issue of the *International Journal of Ecology and Environmental Sciences*, 25: 213–285.

Raman A [Editor] (1997) *Ecology and Evolution of Plant-feeding Insects in Natural and Man-made Environments*. Backhuys Publishers (Leiden, The Netherlands). 245+xxi pages.

Technical Papers Published in (or Communicated to) Professional Journals

Raman A (2020) Plant domestication and evolution of agriculture in India with special reference to Peninsular India, *Encyclopaedia of Environmental History of India*, Indian Council of Historical Research, New Delhi (in press).

Raman A (2020) Ecological thinking and agricultural sustainability. In *Global Climate Change and Environment Policy* edited by Ramanan V, Shah S, and Prasad R, Springer Nature, Singapore, 1–35.

Raman A (2019) Endophytic *Epichlöe* (Clavicipitaceae) association with *Lolium perenne* and *Lolium arundinaceum* (Poaceae) resulting in health problems for the livestock and horses in temperate Australian pastures: assay of secondary metabolites and antioxidant activity. *Plant Physiology Reports* 24: 474–486.

Raman A (2019) Visionary words and realistic achievements: one hundred years of Cecidology. *Formosan Entomologist* 38: 5–24.

Miller III D G, **Raman A** (2018) Host-plant relations of gall-inducing insects. *Annals of the Entomological Society of America* 112: 1–19.

Raman A (2018) Uses of gallic acid —a phenolic acid first isolated from Cynipoidea-induced galls on European Fagaceae, *Cecidology*, 8–18.

Burckhardt D, Sharma A, **Raman A** (2018) Checklist and comments on the jumping plant-lice (Hemiptera: Psylloidea) from the Indian subcontinent. *Zootaxa* 4457 (1): 1–38.

Dhileepan K, Neser S, Rumiz D, **Raman A**, Sharma A (2017) Host associations of gall-inducing *Prodiplosis longifila* (Diptera: Cecidomyiidae) from Bolivia: implications for its use as a biological control agent for *Jatropha gossypiifolia* (Euphorbiaceae). *Florida Entomologist* 100: 777–786.

Raman A, Sharma A (2017) The past and present of Indian Psylloidea (Hemiptera: Sternorrhyncha). *Indian Journal of Entomology* 79: 385–393.

Sharma A, **Raman A.** (2017) Feeding biology and nutritional physiology of Psylloidea (Insecta: Hemiptera): implications in host-plant relations. *Current Science* 113: 1543—1552.

Raman A. (2017) Samuel Benjamin Cnoll in Tranquebar and the establishment of the first 'pharmacy' — Laboratorium Chymicum — in India in 1732. *Current Science* 113: 368—369.

Raman A. (2017) Remembering Joseph Dalton Hooker. *Current Science* 112: 2362—2363.

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Raman A, Suryanarayanan T. S., (2017) Fungus—plant interaction influences plant-feeding insects. *Fungal Ecology* doi: http://dx.doi.org/10.1016/j.funeco.2017.06.004.

Heimoana V, Pilkington, L J, **Raman A**, Mitchell A, Nicol H I, Johnson, A, Gurr G M (2017) Integrating spatially explicit molecular and ecological methods to explore the significance of non-crop vegetation to predators of brassica pests. *Agriculture, Ecosystems, & Environment*. 239: 12–19.

Rizvi S, **Raman A** (2017) *Botrytis cinerea* (Helotiales: Sclerotiniaceae) induced changes in (Vitales: Vitaceae) leaves influence the oviposition behaviour and life history of *Epiphyas postvittana* (Lepidoptera: Tortricidae). *Ethology, Ecology, and Evolution* DOI: 10.1080/ 03949370.2017.1285817.

Raman A, Narayanan C (2017) Search for rubber in pre-*Hevea brasiliensis* days and establishment of *H. brasiliensis* in India. *Indian Journal of Natural Products and Resources* 8: 9—17.

Bhuiyan M S I, **Raman A**, Hodgkins D, Mitchell D, Nicol H (2017) Influence of high concentrations of Na+ and Cl- on ion-accumulation capacity, growth, and photosynthetic performance of three salt-tolerant plants. *Flora* 228: http://dx.doi.org/10.1016/j.flora.2016.12.010.

Raman R, & **Raman A** (2017) Amoebic dysentery and introduction of the emetine source *Carapichea ipecacuanha* into Indian subcontinent. *Indian Journal of History of Science* 52: 54—65.

Al-Habsi, S N, Sharma A, **Raman A** (2017) Arthropod biodiversity and abundance in organically and conventionally managed, cool-climate vineyards in Orange, New South Wales, Australia. *International Journal of Ecology and Environmental Sciences,* 43: 9—15.

Raman A. (2016) Two exquisite hemipteran galls of India with notes on the physiology of gall induction by Sternorrhyncha. *Entomon* 41: 251—264.

Radcliffe C, Parissi C, & **Raman, A** (2016) Valuing indigenous knowledge in the highlands of Papua New Guinea: a model for agricultural and environmental education. *Australian Journal of Environmental Education* doi 10.1017/aee.2016.19.

Bhuiyan M S I, **Raman, A.**, Hodgkins D. (2016) Plants in remediating salinity-affected landscapes. *Proceedings of the Indian National Academy of Sciences* doi: 10.16943/ptinsa/2016/ 48857.

Raman R, **Raman A** (2016) Early decades of Madras Medical College: apothecaries. *National Medical Journal of India* 29: 98—102.

Sharma A, Allen J, Madhavan S, **Raman A,** Taylor GS, Fletcher MJ (2016) Do the complex lipids and sterols regulate fidelity of the host-specific, gall-inducing species of *Synglycaspis* (Hemiptera: Psylloidea: Aphalaridae) to *Eucalyptus macrorhyncha* (Myrtaceae) leaves? *Annals of the Entomological Society of America* doi: 10.1093/aesa/saw059.

Rizvi SZM, **Raman A** 2016. Volatiles of *Botrytis cinerea* (Helotiales: Sclerotiniaceae) infected and uninfected berries of *Vitis vinifera* (Vitales: Vitaceae) influencing the behaviour of *Epiphyas postvittana* (Lepidoptera: Tortricidae). *Entomologia Experimentalis et Applicata* doi: 10.1111/eea.12461.

Rizvi SZM, **Raman A** (2016) Foliar chemistry of *Vitis vinifera* varieties and its implications for the performance of *Epiphyas postvittana* (Lepidoptera: Tortricidae). *Australian Journal of Grape and Wine Research* doi: 10.1111/ajgw.12244.

Raman A (2016) The Grecian Doric-column lighthouse of Madras (1840) and its builder John Thomas Smith FRS, Madras Army Corps of Engineers. *Current Science* **111**: 1106—1111.

Raman A (2016) Entomology and biogeography of the Himalaya: Frederick W. Hope (1839) and Mahadeva S. Mani (1968) *Indian Journal of Entomology* **78**: 176—184.

Raman R, Narayanswamy C, **Raman A** (2016) Surgeon John Shortt on native cattle breeds of southern India in 1889. *Asian Agri-History* 20: 93—105.

Bhuiyan MSI, Maynard G, **Raman A**, Hodgkins D, Mitchell D, Nicol H (2016) Salt effects on proline and glycine betaine levels and photosynthetic performance in *Melilotus siculus*, *Tecticornia pergranulata* and *Thinopyrum ponticum* measured in simulated saline conditions. *Functional Plant Biology* https://dx.doi.org/10.1071/FP15330.

Raman R, Revathy S, **Raman A** (2016) On the villainous saltpetre in pre-independent India. *Current Science* 110: 923--928

Bhuiyan M S I, **Raman A**, Hodgkins D, Mitchell D, Nicol H. (2016) An *ex-situ* assessment of the restoration capacity of a legume, a saltbush, and a grass for restoring saline soils of Central-western New South Wales, Australia. *Clean Soil, Air, Water* (Wiley) 10.1002/clen.201500214.

Sharma A, Allen J, Madhavan S, **Raman A,** Taylor GS, Fletcher MJ (2015) Primary metabolites and minerals in the leaves of three species of *Eucalyptus* hosting three species of Aphalaridae (Hemiptera: Psylloidea) in Central-western New South Wales, Australia. *Annals of the Entomological Society of America* doi: 10.1093/aesa/sav094.

Raman A (2015) Cotton heritage of India and improvements trialled on cotton germplasm in the Madras Presidency during the 19th Century. *Current Science* 109: 1347—1352.

Rizvi S Z M, **Raman A.** (2015) Oviposition behaviour and life-history performance of *Epiphyas postvittana* (Lepidoptera: Tortricidae) on the *leaves of Vitis vinifera* (Vitales: Vitaceae) infected with *Botrytis cinerea* (Helotiales: Sclerotiniaceae) *Vitis* 54**:** 151—159.

Bhuiyan MSI, **Raman A**, Hodgkins DS, Mitchell D, Nicol HI (2015) Salt accumulation and physiology of naturally occurring grasses in saline soils in Australia. *Pedosphere* 25: 501—511.

Chen W-N, Pan L-Y, Chiu S-T, Chiang T–C, **Raman A**, Yang M-M. 2015. Is a gall an extended phenotype of the inducing insect? A comparative study of selected morphological and physiological traits of leaf and stem galls on *Machilus thunbergii* (Lauraceae) induced by five species of *Daphnephila* (Diptera: Cecidomyiidae) in Northeastern Taiwan. *Zoological Science* 32: 314–321.

Rizvi S Z M, **Raman A.** (2015) *Epiphyas postvittana* (Lepidoptera: Tortricidae)—*Botrytis cinerea* (Helotiales: Sclerotiniaceae)—*Vitis vinifera* (Vitales: Vitaceae) interaction: evaluation of the role of *B. cinerea* on the development of *E. postvittana* using synthetic nutritional media. *Journal of Economic Entomology* 1–9 (2015); DOI: 10.1093/jee/tov131.

Raman R and Raman A. (2015) Public-health management in the Madras Presidency in early 20th century: the King Institute of Preventive Medicine, Madras and its pioneering surgeons. *Current Science* 108: 1948—1952.

Rizvi S Z M, **Raman A** Wheatley W, and Cook G. (2015) Oviposition preference and larval performance of *Epiphyas postvittana* (Lepidoptera: Tortricidae) on *Botrytis cinerea* (Helotiales: Sclerotiniaceae) infected berries of *Vitis vinifera* (Vitales: Vitaceae). *Insect Science* DOI 10.1111/1744-7917.12191

Bhuiyan MSI, **Raman A**, Hodgkins DS, Mitchell D, and Nicol HI (2015) Physiological response and ion accumulation in two grasses, one legume, and one saltbush under soil water and salinity stress. *Ecohydrology* DOI: 10.1002/eco.1603

Sharma A, Madhavan S, **Raman A**, Taylor G, and Fletcher M. 2014. Salivary gland structure of *Ctenarytaina eucalypti* (Hemiptera: Aphalaridae) and phloem exudates in *Eucalyptus globulus. Polish Journal of Entomology* 84: 21–32.

Sharma A, **Raman A**, Taylor GS, Fletcher MJ & Nicol H (2015) Feeding and oviposition behaviour of a gall-inducing species of *Glycaspis* (*Syngycaspis*) (Hemiptera: Psylloidea: Aphalaridae) and development of galls on the leaves of *Eucalyptus macrorhyncha* (Myrtaceae) in central western New South Wales, Australia. *European Journal of Entomology* 112: 75–90.

Raman A and Singh S (2014) On the discovery of remarkable gall-inducing *Beesonia dipterocarpi* (Insecta: Hemiptera: Coccoidea) and their galls on *Dipterocarpus tuberculatus* (Dipterocarpaceae) in the Indian subcontinent in the 1920s. *Oriental Insects* 48: 108—122.

Raman A (2014) Georges Guerrard-Samuel Perrottet, a forgotten Swiss–French plant collector, experimental botanist and biologist in India. *Current Science* 107: 1607—1612.

Chidwala A, Frimpong S, **Raman A** (2014) Effect of shelterbelts on the abundance and diversity of earthworms in pasture in the central-west tablelands of New South Wales. *International Journal of Ecology & Environmental Sciences* 40: 123—130.

Raman R, **Raman A**, Ram Manohar P (2014) The arsenic- and mercury containing *Tanjore Pills* used in treating snake bites in the 18th century Madras Presidency. *Current Science* 106: 1759—1763.

Khan A N, Sharma A, **Raman A**, Dhileepan K, Hodgkins D S (2014) Biological management of the invasive *Vachellia nilotica* ssp. *indica* (Fabales: Mimosoideae) in tropical Australia: stress-inducing potential of *Anomalococcus indicus* (Insecta: Hemiptera: Coccoidea: Lecanodiaspididae), an agent of promise. *Arboricultural Journal: The International Journal of Urban Forestry* 36: doi: 10.1080/03071375.2014.929291.

Qawasmeh A, **Raman A**, and Wheatley W (2014) Volatile oils in *Lolium perenne* (Poaceae) infected with *Neotyphodium lolii* strains wild type, AR1 and AR37 (Ascomycota: Hypocreales: Clavicipitaceae) — their impact on the host selection of *Heteronychus arator* (Insecta: Coleoptera: Scarabaeidae). *Journal of Applied Entomology*, 139: 94—104.

Sharma A, **Raman A**, Taylor GS, Fletcher MJ, Nicol HI (2014) Development, feeding and oviposition behaviour of *Ctenarytaina eucalypti* (Maskell) (Hemiptera: Psylloidea:

Aphalaridae) on *Eucalyptus globulus* (Myrtaceae) in the central tablelands of New South Wales. *Austral Entomology* 53: http://onlinelibrary.wiley.com/doi:10.1111/aen.12103/pdf.

Raman A 2014 Edward Green Balfour (1813–1889) and his contributions to Indian agriculture and forestry. *Current Science* 106: 1594—1600.

Rizvi S Z M, **Raman A**, Wheatley W, Cook G, Nicol H (2014) Influence of *Botrytis cinerea* (Helotiales: Sclerotiniaceae) infected leaves of *Vitis vinifera* (Vitales: Vitaceae) on the preference of *Epiphyas postvittana* (Lepidoptera: Tortricidae). *Austral Entomology* 53: http://onlinelibrary.wiley.com/doi/10.1111/aen.12093/pdf.

Khan AN, **Raman A**, Dhileepan K, Hodgkins DS (2014) Localization of feeding of *Anomalococcus indicus* (Hemiptera: Lecanodiaspididae) and supplementary biological notes: towards the biological management of the tree invasive *Vachellia nilotica indica* (Fabales: Mimosoideae) in North-eastern Australia. *Annales de la Société entomologique de France* (Nouvelle Série) 50: http://dx.doi.org/10.1080/00379271.2014.896094.

Raman A (2014) Discovery of *Kerria lacca* (Insects: Hemiptera: Coccoidea), the lac insect, in India in the late 18th century. *Current Science* 106: 886—890.

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Raman A and Sharma A (2013) Remembering T V Ramakrishna: the doyen of Indian entomology. *Current Science* 105: 712—716.

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Marriott J, Florentine SF, and **Raman A** (2013) Effects of *Tetranychus lintearius* (Acari: Tetranychidae) on the structure and water potential in the foliage of the invasive *Ulex europaeus* (Fabaceae) in Australia. *International Journal of Acarology* 39: 275—284.

Adams AA, **Raman A,** Hodgkins DS, and Nicol HI (2013) Accumulation of heavy metals by naturally colonising *Typha domingensis* (Poales: Typhaceae) in waste-rock dump leachate storage ponds in a gold—copper mine in the central tablelands of New South Wales, Australia. *International Journal of Mining, Reclamation and Environment* http://www.tandfonline.com/doi/abs/10.1080/17480930.2013.763496.

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Professional Affiliations

- The Linnean Society of London (Fellow)

- The Environment Institute of Australia & New Zealand (Member)
- The Ecological Society of America (Member)
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Academic Qualifications

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