

# DAVID J. LOHMAN

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Born 13 September 1973

## EDUCATION

2004 Ph.D. in Biology; Harvard University; Thesis Advisor: Naomi E. Pierce  
2000 A.M. in Biology; Harvard University  
1995 B.S. in Biology *Summa cum laude* and with Honors; Bradley University, Peoria, IL

## RESEARCH EXPERIENCE

2004 – 2005 Postdoctoral Research; Lepidopteran herbivore community ecology, Khao Chong Forest Dynamics Plot, Thailand (<http://www.oeb.harvard.edu/rainforest/>)  
1996 – 2004 Masters and doctoral research; Butterfly-ant chemical ecology, USA, Australia, & Thailand  
1995 – 1996 Fulbright Scholar; Butterfly ecology, Griffith University, Brisbane, Australia  
1994 – 1995 Research Assistant; Plant physiological ecology, Bradley University

## TEACHING EXPERIENCE

2005 – 2006 Lecturer in Organismic & Evolutionary Biology; Course Head for Biological Sciences 57: Animal Behavior, Harvard University (49 students enrolled)  
2003 – 2004 Head Teaching Fellow, BS 57: Animal Behavior, Harvard University  
2002 – 2003 Course Development; Multimedia Lectures for BS 57: Animal Behavior, Harvard Univ.  
1999, 2000 Head Teaching Fellow; Biology 19: Ecology, Harvard University  
1999 – 2000 Intellectual Activities Coordinator; Currier House, Harvard University  
1998 – 2000 Tutor on Biology; Currier House, Harvard University  
1997 – 1998 Teaching Fellow; Biology 19: Ecology, Harvard University  
1997 – 1998 Teaching Fellow; Biology 22: Animal Behavior, Harvard University  
1996 Teaching Fellow; BS 2: Organismic & Evol. Biology, Harvard University  
1994 Laboratory Teaching Assistant; Dept. of Biology, Bradley University  
1992 – 1993 Interpretive Naturalist; Wildlife Prairie Park, Peoria, IL

## FELLOWSHIPS, GRANTS, AND HONORS

2004 Center for Tropical Forest Science Research Grant, Smithsonian Institution  
2004 & 2003 Two-time winner, Bowdoin Prize for Graduate Essay in the Natural Sciences, Harvard University (Previous recipients include John Updike & Ralph Waldo Emerson)  
2002 Harvard GSAS Graduate Student Council Travel Grant  
2001 – 2002 Frank Knox Memorial Traveling Fellowship to Australia  
2000 Putnam Expedition Grant to Australia  
2000 – 2003 US EPA STAR Graduate Fellowship  
1999 Putnam Expedition Grant to Thailand and Australia  
1997 – 2000 US Department of Defense NDSEG Graduate Fellowship  
1997 US EPA STAR Graduate Fellowship (declined)  
1997 & 1998 Two-time recipient, Derek Bok Award for Teaching Excellence, Harvard University  
1995 – 1996 Fulbright post-graduate Research Fellowship to Australia  
1995 Phi Kappa Phi Academic Hall of Fame (1 of 3 in my year), Bradley University  
1995 Dean's Award, Outstanding Senior in Biology, Bradley University  
1994 Howard Hughes Undergraduate Research Fellow; U of IL, Champaign  
1991 – 1995 Dean's List every semester, Bradley University

## PUBLICATIONS

- Lohman, D.J., Q. Liao, and N.E. Pierce. In press. Convergence of chemical mimicry in a guild of aphid predators. *Ecological Entomology*.
- Pierce, N.E., M.R. Braby, A. Heath, D. J. Lohman, J. Mathew, D.B. Rand, and M.A. Travassos. 2002. The ecology and evolution of interactions between lycaenid butterflies and ants. *Annual Review of Entomology* **47**: 733-771.
- Lohman D.J. 1999. Chemical communication between the obligately myrmecophilous phytophage *Jalmenus evagoras* (Lycaenidae) and its attendant ants (Abstract). *Proceedings of the Second International Lepidopterists' Conference of Africa, Cape Town, South Africa*: 23.
- Lohman D.J. & K.D. McConnaughay. 1998. Patterns of defensive chemical production in wild parsnip seedlings (Apiaceae: *Pastinaca sativa* L.). *Chemoecology* **8**: 195-200.
- Lohman D.J., A.R. Zangerl & M.R. Berenbaum. 1996. Impact of floral herbivory by parsnip webworm (Oecophoridae: *Depressaria pastinacella* Duponchel) on pollination and fitness of wild parsnip (Apiaceae: *Pastinaca sativa* L.). *American Midland Naturalist* **136**: 407-412.
- Lohman D.J., I.G. Welsford & K.D. McConnaughay. 1995. Plasticity in pigmentation in *Croton*: Uses of image analysis and infra-red gas analysis in plant physiological ecology education (Abstract). *Plant Physiology (Supplement)* **108**: 53.

## PUBLICATIONS IN PREPARATION

- Pierce, N.P. and D.J. Lohman. Acoustics and chemistry: Communication between myrmecophiles and ants. In J. Gadau, ed. *Organization of Insect Societies*. Harvard University Press.
- Lohman, D.J., S. Lertseri, and N.E. Pierce. Chemical mimicry in carnivorous caterpillars. In preparation for submission to *Proceedings of the Royal Society (London) B*.
- Lohman, D.J., R.L. Kitching, and N.E. Pierce. Chemical camouflage in myrmecophilous butterflies. In preparation for submission to *Oecologia*.
- Pierce, N.E., A.A. Mignault, M. Blair, J. Coleman, T. Suderman, D.J. Lohman, R. Eastwood. Phylogeny and evolution of ant association in the Australian butterfly genus *Ogyris* (Lepidoptera: Lycaenidae). In preparation.
- Lohman, D.J. and D. Murawski. Morphological changes associated with evolutionary transitions to carnivory in larval Lepidoptera. In preparation for submission to the *Journal of Natural History*.

## POSTERS AND PRESENTATIONS

- 2005 Presentation: Chemical ecology of carnivorous caterpillars in Thailand (Lepidoptera: Lycaenidae). Department of Entomology, Kasetsart University, Bangkok, Thailand
- 2004 Presentation: Chemical mimicry in carnivorous caterpillars (Lepidoptera: Lycaenidae). Lepidopterists' Society Annual Meeting, Baltimore, MD
- 2003 Presentation: Chemical mimicry in ant-butterfly symbioses. Invited presentation at ANET and Myrmecology for Global Environments Workshop, Bangkok, Thailand
- 2002 Poster: Chemical camouflage in carnivorous caterpillars (Lepidoptera: Lycaenidae: Miletinae). XIV Annual Congress of IUSI, Sapporo, Japan
- 2002 Presentation: Chemical ecology of lycaenid butterfly-ant symbioses: A comparison of herbivorous Australian theclines and carnivorous Thai miletines. Invited presentation in the Department of Biology, National University of Singapore
- 2002 Presentation: นิเวศน์วิทยาเชิงเคมีของผีเสื้อวงศ์สีน้ำเงินที่อยู่กับมด: หนอนผีเสื้อของประเทศออสเตรเลียที่กินพืชเป็นอาหารและหนอนผีเสื้อของไทยที่กินสัตว์เป็นอาหาร (Delivered in Thai). Invited presentation at the Royal Thai Department of Forestry, Bangkok, Thailand

- 2002 Presentation: Chemical ecology of ant-butterfly symbioses: a comparison of herbivorous Australian theclines (Lepidoptera: Lycaenidae: Theclinae) and carnivorous Thai miletines (Lepidoptera: Lycaenidae: Miletinae). Prince of Songkla University – Griffith University Joint Conference on Ecology and Evolution, Had Yai, Thailand
- 2002 Presentation: The role of cuticular hydrocarbons in mediating lycaenid butterfly-ant symbioses (Lepidoptera: Lycaenidae). Fourth International Conference on the Biology of Butterflies, Leiden, The Netherlands
- 1999 Presentation: Chemical communication between the obligately myrmecophilous phytophage *Jalmenus evagoras* (Lycaenidae) and its attendant ants. Butterflies: Ambassadors of Biodiversity Conference, Cape Town, South Africa

#### PROFESSIONAL MEMBERSHIPS

The Lepidopterists' Society, Entomological Society of America, Cambridge Entomological Club, International Society for Chemical Ecology, International Union for the Study of Social Insects (North American Section), ANeT: International Network for Ant Research in Asia, Fulbright Academy of Science and Technology, Siam Society, International Double Reed Society

#### JOURNAL REFEREE FOR

Behavioral Ecology, Ecological Entomology, Journal of the Lepidopterists' Society, Naturwissenschaften

#### COMMUNITY SERVICE

- 2005 Initiated and undertook scanning to pdf all 57 years of back issues of the the *Journal of the Lepidopterists' Society* (with support of the Society) for free dissemination on the world wide web
- 2005 *Pro bono* scientific advisor to the Forest Insect Group, Department of National Parks, Wildlife and Plant Conservation (DNP), Thailand, and to the Asia-Pacific Delegate to the Subsidiary Body on Scientific, Technical and Technological Advice Committee for the Convention on Biological Diversity
- 2005 Taught weekly English courses free of charge to employees of the DNP and their families at my research site, Khao Chong Community Forestry Center, Trang, Thailand
- 2005 Advised a rural high school science class (Ampuh Nayong, Trang, Thailand) on ecology research methods for a long-term class research project on the flora and fauna of sago palm habitats
- 2004-5 The Lepidopterists' Society, Web/Technology and Records/Archives Committees
- 2004 Designed web site *pro bono* for non-profit organization dedicated to alleviating poverty in Africa through the cultivation of native silk worms (Lepidoptera: Saturnidae) and export of exotic silks (<http://www.cпали.org/>)
- 2004 Participating "Biodiversity Expert" and nature photographer for the 2004 Nantucket Biodiversity Initiative (<http://efgblade.cs.umb.edu:9090/gallery-1.4.3/>)
- 1998-9 OEB Departmental Seminar Series Coordinator; Harvard University

#### HOBBIES, LANGUAGES, & OTHER TRAINING

- 2002 graduate of the "Ant Course;" a 10-day workshop on ant taxonomy and identification ([http://www.calacademy.org/research/entomology/ant\\_course/](http://www.calacademy.org/research/entomology/ant_course/))
- Playing the bassoon and contrabassoon – Played with Harvard-Radcliffe Orchestra (HRO) 1997-2000 (principal bassoon during 2000 tour of Brazil); performed with over a dozen other orchestras and ensembles at Harvard University and metropolitan Boston
- Photography – particularly insect macrophotography; Published photograph: National Geographic (English Edition), June 2003, "On Assignment" double page spread, pp. 140-141.
- Thai language – 2.5 years formal instruction at Harvard University; over 7 years informal study and practice; understand and communicate in spoken and written Thai