

CURRICULUM VITAE

Jason D. Weintraub

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ACADEMIC INTERESTS

Systematics, historical biogeography, and evolutionary ecology of Lepidoptera (esp. Papilionoidea, Geometroidea, Calliduloidea). Taxonomy and systematic cataloging of Orthoptera. Systematics collections curation, digital imaging and multimedia databasing. History of entomological literature. Conservation of biodiversity in tropical forest ecosystems. Application of Lepidoptera farming and ranching to conservation planning and sustainable economic development in tropical environments.

EDUCATION

A.B., *Cum Laude*, Harvard College, Harvard University, 1983
Department of Biology [concentration in Evolutionary and Organismic Biology]

APPOINTMENTS

Collection Manager, Department of Entomology, Academy of Natural Sciences, 2001 - present.

Research/Curatorial Assistant, Department of Entomology, Academy of Natural Sciences, 1995-2001.

Scientific Consultant and design team member for *Butterflies!* [live butterfly exhibition], Exhibits Department, Academy of Natural Sciences, January- October, 1996 (concurrently with above position).

Scientific Consultant, Wallacea Development Institute, Sulawesi, Indonesia, 1994. Project involved presentation of lectures and visits to field sites for NGO exploring butterfly farming as one of several development projects.

Research Fellow, Entomology, Natural History Museum [formerly British Museum (Natural History)], London, U.K., 1991-1995.

Scientific Consultant, Penang Butterfly Farm, Penang, Malaysia, 1987-1990. Projects involved advising farm staff on breeding techniques and studies of host associations of indigenous butterfly species.

Consultant / Translator, BBC Natural History Unit film crew, peninsular Malaysia and Borneo, April, 1988. Assisted film crew and producer of David Attenborough's *Trials of Life* series with entomological sequences and as translator for local crew.

Team Member, Project Wallace Entomological Expedition to Sulawesi, Indonesia. 1985-1986.

Curatorial Technician, Collections Management Division, Department of Entomology, National Museum of Natural History, Smithsonian Institution, Washington, D.C., 1982-1984. Projects involved curation and inventory of Lepidoptera collection.

SELECTED FIELD RESEARCH EXPERIENCE

Field research in Mesa Co. and Garfield Co., Colorado as part of multidisciplinary biotic survey team, 2008 - 2010.

Field research in the Turks & Caicos Islands as part of multidisciplinary biotic survey team, May, 2007.

Field research in Jamaica as part of multidisciplinary biotic survey team (terrestrial insects), May, 2000.

Field research in Cuba (terrestrial insect survey, with focus on Orthoptera/Lepidoptera), May, 2000.

Field research in Equatorial Guinea conducting survey of Lepidoptera on Bioko Island, Nov-Dec., 1999.

Field research in New Zealand/Australia/Tasmania, February-March 1993. Conducted survey of pteridophagous geometrid moths.

Field research in Argentina/Chile (Patagonian Andes), January-February 1993. Conducted survey of pteridophagous geometrid moths.

Field research in Timor, Indonesia, May, 1989; August, 1990. Conducted survey of host associations of swallowtail butterflies (Lepidoptera: Papilionidae: Troidini) and studied larval ecology of *Pachliopta liris*.

Field research in peninsular Malaysia, November, 1988 - April, 1989; March - December, 1987. Conducted survey of host associations of swallowtail butterflies (Lepidoptera: Papilionidae: Troidini) and studied larval ecology of *Pachliopta* subgenus *Losaria* (Lepidoptera: Papilionidae).

Field research in Indonesia, September- December, 1985 as part of the Project Wallace entomological expedition to North Sulawesi. Conducted study on the distribution and ecology of Sulawesi Lepidoptera.

Field research in Madagascar, December, 1984 -January, 1985. Conducted study of papilionid butterfly biology and survey of Lepidoptera diversity.

Field research in the Dominican Republic, August, 1983; March, 1984. Conducted study on the distribution and ecology of the butterfly *Battus zetides* (Lepidoptera: Papilionidae).

Field research in Trinidad, January, 1984; Lepidoptera ecology/general terrestrial insect survey.

Field research in Central & S. America studying ecology of *Parides* and *Battus* butterflies (Lepidoptera: Papilionidae), 1981-1982.

Field research throughout Venezuela as part of a coursework in tropical ecology (Biology 250, Harvard University), January, 1981. Conducted study of spatial segregation in a cloud forest ant fauna, and assisted with study of carnivory in *Brocchinia* (Bromeliaceae).

Extensive field experience studying insect biosystematics and ecology throughout North America (including field surveys in the following states/provinces: AZ, CA, CO, CT, DE, DC, FL, GA, IL, IN, KY, LA, ME, MD, MA, MI, NV, NH, NJ, NM, NY, NC, OH, PA, TX, UT, VT, VA, WV, Ontario, Quebec), 1975-present.

PHOTOGRAPHIC AND COMPUTER EXPERTISE

Extensive experience in both field and laboratory photography of natural history subjects over the past 35 years including: conventional SLR photography, digital SLR photography, macrophotography, photomicrography, scanning electron microscopy, and digital imaging (including editing of digital images using *Adobe Photoshop* and use of *Automontage* photomicrography software). Insect photography has been published in both popular and scientific publications, and exhibited in two major natural history museums (Academy of Natural Sciences, Philadelphia, PA and Museum of Comparative Zoology, Harvard University, Cambridge, MA). Studio digital photography using Kodak DCS-series cameras, Nikon Coolpix cameras, Canon and Olympus digital SLR cameras includes extensive entomological photography at the Academy of Natural Sciences as well as "off-site" digital imaging at other natural history museums (*Portfolio of conventional and digital photography available upon request*).

Computer software experience includes: extensive working knowledge of Mac OS (many versions over the past 30 years up to and including OSX); basic working knowledge of Windows OS (through "Windows XP" version); database software (*FileMaker Pro* and associated "front ends"; spreadsheet software (*Microsoft Excel*; *Claris Works*, *AppleWorks*); word-processing software (*Microsoft Word*, *Apple TextEdit*, *WordPerfect*); graphics and image-editing software (*Adobe Photoshop* - v. 3, 4, 5, 6, 7; *Graphic Converter* - v. 2, 3, 4; *Superpaint* v3; extensive knowledge of image file formats incl. translation between formats); web page authoring and PDF file- authoring software (*Adobe PageMill*, *Adobe Acrobat*) phylogenetic analysis software (MacClade, PAUP).

PROFESSIONAL ORGANIZATIONS

American Entomological Society
The Orthopterists' Society
Soc. for the Preservation of Natural History Collections

FOREIGN LANGUAGES

Indonesian (Malay)
French [scientific translation]
Spanish [scientific translation]

SELECTED PUBLICATIONS

2010. Keyghobadi, N., J.D. Weintraub, D. Koscinski, and D.M. Fonseca. The regal fritillary butterfly: Genetic analysis of museum specimens reveals the conservation status of populations in a declining species. [abstract] p. 46. In: *6th International Conference on the Biology of Butterflies*. Program & Abstracts. 85 pp. Edmonton, Canada: University of Alberta.

2004-2009. Gelhaus, J.K., J.D. Weintraub, P.J. Morris, E. Benamy and S. Dilliplane. *Entomology Type Collection at The Academy of Natural Sciences*. [version s.n.; an annotated database of primary type material housed in the ANSP Entomology Collection]. URL: <http://clade.ansp.org/entomology>

2006. Keyghobadi, N., K.P. Unger, J.D. Weintraub and D.M. Fonseca. Remnant populations of the regal fritillary (*Speyeria idalia*) in Pennsylvania: Local genetic structure in a high gene flow species. *Conservation Genetics* 7: 309-313.

2004. Weintraub, J.D. & M.J. Scoble. Lithinini (Insecta: Lepidoptera: Geometridae: Ennominae). *Fauna of New Zealand No. 49*, 48 pp.

2004. Gelhaus, J.K., J.D. Weintraub, P.J. Morris, and E. Benamy. *An illustrated on-line catalog of the Titian Peale Butterfly and Moth Collection* (version 1.0: 2004-Sept-20). [WWW database] URL: <http://clade.ansp.org/entomology/collections/peale/index.html>

2000. Spearman, L.A., N.A. Orfe, and J.D. Weintraub. An annotated list of the butterfly fauna of Bioko Island, Equatorial Guinea (Lepidoptera: Papilionoidea, Hesperioidea). *Transactions of the American Entomological Society* 126: 447-475.
1996. Weintraub, J.D. Harvesting a kaleidoscope of color: Butterflies as a sustainable resource. *Explore* 2(5): 1.
1995. Weintraub, J.D., J.H. Lawton, and M.J. Scoble. Lithinine moths on ferns: a phylogenetic study of insect-plant interactions. *Biological Journal of the Linnean Society* 55(3): 239-250
1995. Weintraub, J.D. Host-plant association patterns and phylogeny in the tribe Troidini (Lepidoptera: Papilionidae). Ch. 27 (pp. 307-316) in: Scriber, J.M., R.C. Lederhouse, and Y. Tsubaki (eds.), *Swallowtail Butterflies: their ecology and evolutionary biology*. Gainesville, FL: Scientific Publishers, Inc.
1994. Weintraub, J.D., M.A. Cook, and M.J. Scoble. Notes on the systematics and ecology of a fern-feeding looper moth, *Entomopteryx amputata* (Lepidoptera: Geometridae). *Malayan Nature Journal* 47(3): 355-367.
1993. Nishida, R., J.D. Weintraub, P. Feeny, and H. Fukami. Aristolochic acids from *Thottea* spp. (Aristolochiaceae) and the osmeterial secretions of *Thottea* - feeding troidine swallowtail larvae (Papilionidae). *Journal of Chemical Ecology* 19: 1587-1594.
1987. Weintraub, J.D., and J.S. Miller. Critique of Scoble (1986), *The structure and affinities of the Hedyloidea: a new concept of the butterflies*. *Cladistics* 3: 299-304.
1984. Givnish, T.J., E.L. Burkhardt, R. E. Happel, and J.D. Weintraub. Carnivory in the bromeliad *Brocchinia reducta*, with a cost/benefit model for the general restriction of carnivorous plants to sunny, moist, nutrient-poor habitats. *American Naturalist* 124: 479-497.

INTERNAL REPORTS

- 2008-2010 [2011]. Weintraub, J., Interim Report – High Lonesome Ranch Entomological Survey. In: Horwitz, R.J., Mead, J., Brannin, M. & Weintraub, J. [2011]. *Interim Report on Ecological Studies by the Academy of Natural Sciences at The High Lonesome Ranch; 2008-2010 Studies*.
2001. Weintraub, J.D. Reintroduction of the Bronze Copper butterfly (*Lycæna hyllus*) to the Lower Pennypack Valley. 6pp. [internal report prepared as part of Patrick Center for Environmental Research project under contract to NLREEP].
2001. Otte, D. and J.D. Weintraub. An ecological database of North American grasshoppers (Orthoptera: Acridoidea). [database categorizing habitat preferences of entire Nearctic grasshopper fauna; database prepared for NatureServe (formerly the Association for Biodiversity Information/Nature Conservancy)].

INVITED LECTURES & PRESENTATIONS AT MAJOR ACADEMIC MEETINGS

- June/July 2010. [coauthored w/ N. Keyghobadi, D. Koscinski & D.M. Fonseca] The regal fritillary butterfly: Genetic analysis of museum specimens reveals the conservation status of populations in a declining species. 6th International Conference on the Biology of Butterflies. Edmonton, Alberta, Canada.
- March, 2003. Butterflies as a sustainable resource: Butterfly Farming and tropical forest preservation in Southeast Asia. North American Butterfly Association. Philadelphia, Pennsylvania.
- November, 2002. The Biology of Lepidoptera. Wagner Free Institute. Philadelphia, Pennsylvania.
- April, 1996. Systematics and evolutionary ecology of fern-feeding inchworm moths. American Entomological Society, Philadelphia, Pennsylvania.
- April, 1992. The higher classification of the Lithinini (Lepidoptera: Geometridae). VIII European Congress of Lepidopterology. Helsinki, Finland.
- August, 1990. The genus *Pachliopta* (Lepidoptera: Papilionidae): Phylogenetics and the evolution of host associations. Presented at: V International Congress of Ecology. Yokohama, Japan, and IXth meeting of the Willi Hennig Society, Canberra, Australia. [abstract: p. 104, *Abstracts of the Plenary, Symposium Papers and Posters presented at the V International Congress of Ecology, Yokohama.*]
- December, 1989. Phylogeny and host association patterns in the butterfly tribe Troidini (Lepidoptera: Papilionidae): Coevolution or colonization? Entomological Society of America, San Antonio, Texas.