

CURRICULUM VITAE

Owen D.V. Sholes

Professor of Biology
Department of Natural Sciences
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Education

Ph.D. in Ecology, Cornell University, 1980
B.A. in Biology, Carleton College, Magna cum Laude, 1972

Professional Experience: Assumption College

Professor of Biology, 2012-present
Associate Professor of Biology, 1988-2012
Assistant Professor of Biology, 1980-1988; awarded tenure in 1984
Instructor of Biology, 1978-1980

Courses taught:

Ecology
Environmental History of New England
Botany
Invertebrate Zoology
Evolution
Special Topics in Biology: Trees
General Biology
Honors Seminar

Current Research Interests

Plant-herbivore interactions
Factors affecting tree growth and survival
Environmental history

Publications

- O.D.V. Sholes. 2017. Death or Nourishment in Robert Frost's 'Blue-Butterfly Day'? *The Explicator* 75 (1): 22-24.
- O.D.V. Sholes. 2016. Bleeding Trees in the Poetry of Robert Frost. *The Robert Frost Review* No. 26: 31-39.
- O.D.V. Sholes. 2013. Avoidance of needle rust fungus by larval sawfly on pinyon pine. *Southwestern Naturalist* 58: 474-478.
- O.D.V. Sholes. 2013. Effects of ice storm damage on radial growth of *Quercus* spp. *Journal of the Torrey Botanical Society* 140(3): 364-368.
<http://www.bioone.org/doi/pdf/10.3159/TORREY-D-13-00036.1> (abstract)
- O.D.V. Sholes. 2011. Consequences of narrow temperature tolerance for a pinyon pine sawfly, *Neodiprion edulicolus*. *Environmental Entomology* 40: 777-781.
<https://academic.oup.com/ee/article/40/4/777/380372/Consequences-of-Narrow-Temperature-Tolerance-for-a>

- O.D.V. Sholes. 2008. Effects of associational resistance and host density on woodland insect herbivores. *Journal of Animal Ecology* 77: 16-23.
<http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2656.2007.01317.x/full>
- O.D.V. Sholes and D.L. Hawkins. 2007. Composition and temporal change of the forest in 18th century Shrewsbury, Massachusetts. *Journal of the Torrey Botanical Society* 134: 75-80.
- J. Buron, D. Lavigne, K. Grote, R. Takis and O. Sholes. 1998. Association of vines and trees in second-growth forest. *Northeastern Naturalist* 5: 359-362.
- O.D.V. Sholes. 1997. New data uphold biogeography theory. *Bioscience* 47: 475. (Letter)
- O.D.V. Sholes. 1994. Plant survival. *Nature* 371: 661. (Scientific Correspondence)
- R.I. Bertin and O.D.V. Sholes. 1993. Weather, pollination and phenology of *Geranium maculatum*. *American Midland Naturalist* 129: 52-66.
<http://www.jstor.org/stable/2426435>
- O.D.V. Sholes. 1988. Leaf litter consumption after timber harvest: percentages differ, totals do not. *Ecology* 69: 543. (peer-reviewed Comment)
<http://www.jstor.org/stable/pdfplus/1940453.pdf?acceptTC=true>
- S.W. Beatty and O.D.V. Sholes. 1988. Leaf litter effect on plant species composition of deciduous forest treefall pits. *Canadian Journal of Forest Research* 18: 553-559.
- O.D.V. Sholes and S.W. Beatty. 1987. Influence of host phenology and background vegetation on the abundance of *Tamalia coweni* galls (Homoptera: Aphididae) on *Arctostaphylos insularis* (Ericaceae). *American Midland Naturalist* 118: 198-204. <http://www.jstor.org/stable/2425643>
- O.D.V. Sholes. 1987. Host plants and seasonal abundance of adult *Capraita subvittata* (Horn) (Coleoptera; Chrysomelidae; Alticinae). *Proceedings of the Entomological Society of Washington (D.C.)* 89: 818-820.
- O.D.V. Sholes. 1984. Responses of arthropods to the development of goldenrod inflorescences (*Solidago*: Asteraceae). *American Midland Naturalist* 112: 1-14.
<http://www.jstor.org/stable/2425450>
- O.D.V. Sholes. 1981 Herbivory by species of *Trirhabda* (Coleoptera: Chrysomelidae) on *Solidago altissima* (Asteraceae): variation between years. *Proceedings of the Entomological Society of Washington (D.C.)* 83: 274-282.
- O.D. Sholes and J.E. Rawlins. 1979. Distribution of orb-weavers (Araneidae: Araneae) in homogeneous old-field vegetation. *Proceedings of the Entomological Society of Washington (D.C.)* 81: 234-247.
- D. Pimentel, L.E. Hurd, A.C. Bellotti, M.J. Forster, I.N. Oka, O.D. Sholes, and R.J. Whitman. 1973. Food Production and the Energy Crisis. *Science* 182: 443-449.

Oral Presentation Abstracts (since 1985)

- O.D.V. Sholes. 2016. Robert Frost: Making Choices in a Changing Countryside. International Conference on EcoPoetics, Perpignan, France. June 22-25. <http://ecopoeticsperpignan.com/programme/>
- O.D.V. Sholes. 2013. Landscape as a source of mood in the poetry of Robert Frost. The Eleventh International Conference on New Directions in the Humanities. http://thehumanities.com/_uploads/H13_Final_Web_Program_Updated.pdf
- O.D.V. Sholes. 2002. Variable responses of herbivores to host and non-host density. Abstracts, Ecological Society of America 87th Annual Meeting <http://abstracts.co.allenpress.com/pweb/esa2002/document/?ID=4548>
- O.D.V. Sholes. 2000. Influence of cold weather on the abundance of pinyon pine sawflies. Abstracts, Ecological Society of America 85th Annual Meeting, p. 306
- O.D.V. Sholes. 1998. Influence of background vegetation on insect herbivores. Proceedings of VII International Congress of Ecology, p. 389
- O.D.V. Sholes. 1995. What limits the distribution of pinyon pine sawflies: dispersal ability, conditions, and/or enemies? Bulletin of the Ecological Society of America 76(2; part 2): 240
- O.D.V. Sholes and T.G. Whitham. 1993. Top-down and bottom-up control of herbivores on pinyon pine. Bulletin of the Ecological Society of America Supplement. 74(2): 435
- O.D.V. Sholes. 1992. Herbivory and flower production on a forest understory perennial. Bulletin of the Ecological Society of America Supplement. 73(2): 342
- O.D.V. Sholes. 1988. Inflorescence shape and timing of apical herbivory affect flower production. Bulletin of the Ecological Society of America 69: 295
- S.W. Beatty and O.D.V. Sholes. 1987. Survivorship of plant species invading new forest microsites. Bulletin of the Ecological Society of America. 68: 261
- O.D.V. Sholes. 1987. Flower production following destruction of apical meristems by herbivores. Bulletin of the Ecological Society of America 68: 415
- S.W. Beatty and O.D.V. Sholes. 1985. The role of leaf litter in determining plant species composition of treefall pits in northeastern deciduous forests. Bulletin of the Ecological Society of America 66: 139
- O.D.V. Sholes and S.W. Beatty. 1985. Abundance of gall-forming aphids on manzanita: influence of host phenology and background vegetation. Bulletin of the Ecological Society of America 66: 271

Poster Presentation Abstracts

- O.D.V. Sholes. 2007. Is there growth after gypsy moths? Impact of an invasive defoliator. Ecological Society of America 92nd Annual Meeting. <http://eco.confex.com/eco/2007/techprogram/P2671.HTM>

D.L. Hawkins & O.D.V. Sholes. 2005. Eighteenth-century deforestation in Worcester County: the onset of devastation. Colleges of Worcester Research Symposium, April 20, 2005, Mechanics Hall, Worcester.

O.D.V. Sholes. 2004. Using palaeodata to identify environmental problems. Abstracts, Ecological Society of America 89th Annual Meeting
<http://abstracts.co.allenpress.com/pweb/esa2004/document/?ID=34463>

O.D.V. Sholes. 1999. Does a population always do best near the center of its range? Abstracts, Ecological Society of America 84th Annual Meeting, p. 306

O.D.V. Sholes. 1990. Factors related to first-time and repeated herbivory by leaf-chewing insects on *Aster divaricatus*. Bulletin of the Ecological Society of America Supplement. 71(2): 324

Public Lectures

Poetry Night, Edmund Niles Huyck Preserve, Rensselaerville, NY
 Nature Poetry: Robert Frost, April 2015

Assumption College, HumanArts Series
 "Poet Naturalist: Robert Frost in the Changing Landscape of New England"
 March 2014

Assumption College, D'Alzon Library celebration of National Library Week
 "From Ice Age to Duck Pond" April 2009

Assumption College, Department of Natural Sciences Seminar Series
 "Ordeal by ice: Tree growth after the 2008 ice storm" November 2013
 "One Long Argument: Darwin and the *Origin of Species*" February 2009
 "Is there growth after gypsy moths?" October 2007
 "Insects on pinyon pine" February 1994

Academic Celebration week, Assumption College, Spring 1995
 "The Grand Stairway on the Colorado Plateau: Bryce, Zion and Grand Canyons"

Biology Department, Northern Arizona University, "Ecolunch" seminars
 "Impact of leaf litter on forest understory vegetation" October 1992
 "Herbivory along an elevation gradient" January 1993

Biology Department, Eastern Connecticut State University
 "Plants and herbivores: who is responding to whom?" April 1992

Politics Club Faculty Forum on politics and the environment: November 1986.

Biology Department, Clark University, Graduate Seminar:
 "Influence of leaf litter on understory vegetation" March 1985

Awards

Elected a Full Member of Sigma Xi: 2006
 Award of full salary for one-year sabbatical: 1992-93.
 Phi Beta Kappa: 1972
 Sigma Xi (Associate Member): 1972

Grants

Faculty Development Grants, Assumption College

Biological subjects and images in the poetry of Robert Frost: 2012

Analysis of tree rings: 2003

Resilience of an Insect Population: 2000

Distribution of insects on pinyon pine: 1996, 1995

Distribution of *Dictyna* spiders on *Solidago*: 1989, 1984

Computer data analysis: 1985

Distribution of gall insects on chaparral shrubs: 1984

National Science Foundation, Research Opportunity Award: 1994.

The center of the range as suboptimal habitat (Amendment #005 to DEB-9107042)

Summer Research Fellowships, Edmund Niles Huyck Preserve, NY

Herbivore exclusion from *Aster divaricatus*: 1985

Effects of litter on forest understory plants: 1984

Professional Reviews

Journal Manuscripts

American Midland Naturalist

Conservation Biology

Ecology

European Journal of Forest Research

Iranian Journal of Applied Animal Science

Journal of Animal Ecology

Journal of Natural Resources and Life Sciences Education

Journal of the Torrey Botanical Society

Northeastern Naturalist

Oecologia

Book Manuscripts

University of Chicago Press

Prentice Hall

Textbook Chapters

Biology of the Invertebrates, J.A. Pechenik; McGraw Hill

Grant Proposals

National Science Foundation

National Academy of Sciences Committee on Scholarly Communication with the
People's Republic of China

W. M. Keck Foundation

Extramural Reviewer for Tenure and/or Promotion

Clark University

University of Arizona

Worcester Polytechnic Institute (WPI)

Consultant on Science Facilities

Burt, Hill Architects: University of Scranton, May 2007

Project Kaleidoscope: University of Wisconsin, Marathon County: May 2006.