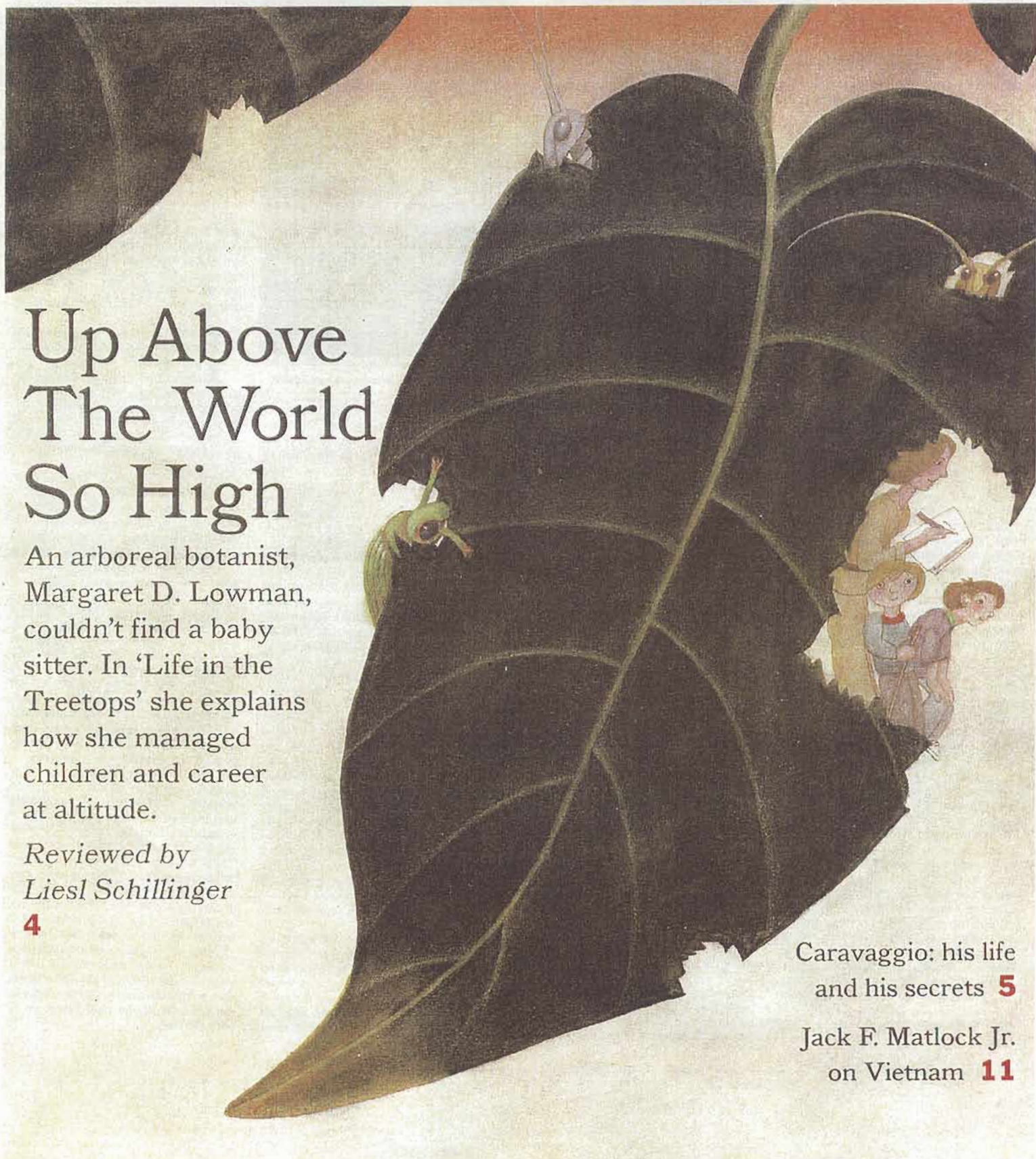


# Book Review

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## Up Above The World So High

An arboreal botanist, Margaret D. Lowman, couldn't find a baby sitter. In 'Life in the Treetops' she explains how she managed children and career at altitude.

*Reviewed by  
Liesl Schillinger*

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Caravaggio: his life  
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# Arbor Days

A botanist recounts falling in love with a leafy canopy few people get to see.

## LIFE IN THE TREETOPS

Adventures of a Woman  
in Field Biology.

By Margaret D. Lowman.

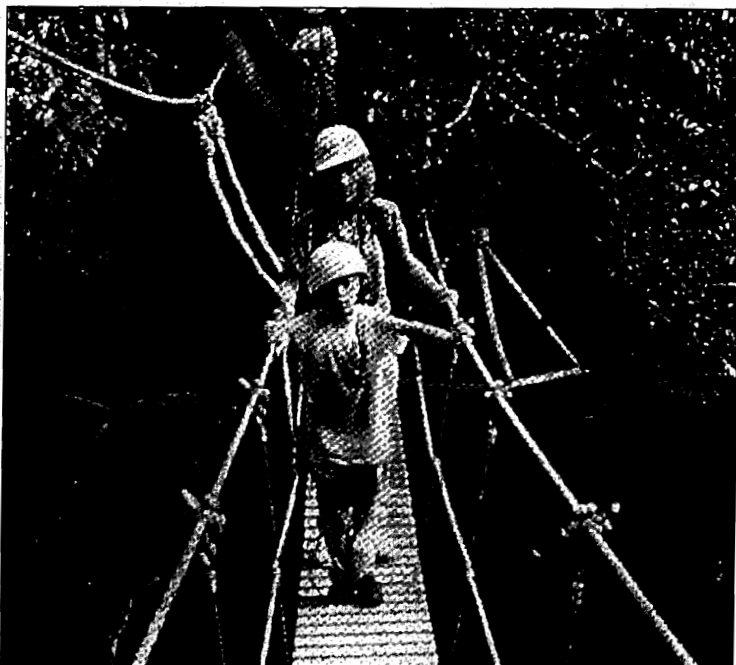
Illustrated. 219 pp. New Haven:  
Yale University Press. \$27.50.

By Liesl Schillinger

IT'S hard to be a working mother: if it isn't enough that you have to spend your days dodging venomous snakes and turkey droppings as you scale giant stinging trees, you have to make sure the kids don't fall when they clamber up after you into the tree canopy, 72 feet above the forest floor. And of course you can never count on your husband to remember to load the diapers and "Pat the Bunny" into the daypack. No, it has to be you, you, you from just before dawn, when he slinks off into the outback to herd sheep, till nightfall, when you wearily pluck the tarantulas from the ceiling above your sleeping sons, catalogue a few hundred leaf specimens and get back to the kitchen. Still, you can take comfort in knowing that hundreds of thousands of other American moms face similar problems.

In "Life in the Treetops," Margaret D. Lowman, director of research and conservation at the Marie Selby Botanical Gardens in Sarasota, Fla., gives a funny, unassuming and deeply idiosyncratic chronicle of her trials and triumphs as a field biologist of tree canopies and other ecosystems in Australia, New England, Belize, Panama and elsewhere. Like Elaine May's unworldly botanist in the memorable 1971 film "A New Leaf," Lowman stumbles bravely through the painstaking tasks of her scientific life, blissfully unaware of the hazards that lurk behind every jungle creeper and behind her own curtains. Raised in upstate New York by quiet, conservative school-teacher parents, Lowman studied at Williams College and got her master's degree in ecology in Scotland, at the University of Aberdeen (her thesis topic: the seasonality of highland birches). Then, in 1978, worrying that she had acquired a "temperate bias," she decided to switch her focus to the study of tropical forests. She accepted a botany scholarship from the University of Sydney, in Australia, overlooking one small detail: "I was so naive," she ruefully admits, "that I failed to realize that Sydney was more than a thousand kilometers from the tropics." Undaunted, she decided to study the habits of rain forest butterflies, but when a supervisor gently pointed out the difficulties of, first, getting butterflies to show up at all, and, second, getting them to stick around for close inspection, she wisely turned her gaze to leaves instead. In one of many marvelous deadpan declarations, Lowman

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Margaret D. Lowman and her children on a rain forest canopy walkway in Belize.

humbly explains, "I did not intend to climb trees as a career."

Nonetheless, on March 4, 1979, she launched herself into a high crook of a coachwood and was hooked. "From then on," she writes, "I never looked back... or down!" Lowman threw herself into the study of native trees — Antarctic beech, coachwood, eucalyptus, red cedar and stinging gymple-gymple — and the herbivores that preyed upon them. With the aid of improvised slingshots that fired ropes into tree crowns, she pulled herself up thousands of Australian tree stands to examine leaf predation patterns. When she needed help in tree rigging, leaf measurement and site surveys but couldn't pay for it, she gamely arranged a work-barter system, donning a snorkel and a butterfly net to swim after Australian sea snakes (some of the most poisonous reptiles in the world), in return for which her herpetologist colleagues helped her sample leaves, ignoring minor inconveniences like leeches, one of which once crawled unnoticed into a field partner's eye as he intently scanned the forest floor for seedlings.

During the first five years of her stay, Lowman's observational and deductive skills helped solve a number of regional arboreal mysteries. Which opportunistic herbivore was responsible for the sporadic massacre of Antarctic beech tree canopies? Who or what was devouring the sharp, poisonously furred leaves of the gymple-gymple tree? Why were entire forests of eucalyptus dying out? (The answer in each case turned out to be one kind of beetle or another, abetted by assorted human and environ-

mental factors.) There was only one species of indigenous fauna Lowman failed to study: men, to the confusion of tradition-bound Australians, who couldn't understand why a fine-looking sheila in her late 20's would want to go about in khaki hacking pants with a machete and put more energy into hunting a leaf-eating beetle than hunting a husband.

At the age of 29, Lowman quieted local consternation, for a while at least. With unintentionally comic effect, she describes her courtship and reproductive history with the same clinical detachment she might bring to bear on the caterpillar stage of a Christmas beetle. "Through our mutual interest in dead trees, I met a local grazier and married him," is her first mention of the farmer (owner of 5,000 acres of pasture, sheep and cattle) who was to be her husband. Lowman credits the match to no more romantic agents than "age-related hormones" and her "strong nesting instinct." That motherhood would interfere with her vocation came as a shock. "My first suspicions of pregnancy arose while I was perched in the canopy of a black bean tree... in north Queensland," she says, remembering that a sudden wave of nausea surprised her, since "under normal conditions, canopy work from a stable tower was a virtual joy for me, compared to working from swaying ropes."

Seven months later, she made one concession to her condition: "I allowed myself the luxury of a cherry picker for access to tree canopies." She mourned the lack of female mentors, failing to consider the fact that she was, after all, a pioneer, and that in the late 70's and

early 80's viable mentors in treetop field biology were few, whether male or female, with or without children. Indeed the kind of canopy exploration Lowman conducted was being invented as she did it, and she has been among the first to take advantage of the ecologically minded aerial walkways and balloon exploration rafts developed only over the last decade, some of them with her in mind.

After her first son was born, and then a second, Lowman still managed to combine child rearing with leaf chomping. Like a mother orangutan, she took her infant sons with her on forest expeditions, because her mother-in-law would baby-sit only for suitably feminine exigencies like beauty appointments, not for "this academic stuff." Lowman would survey seedlings for a few hours, scramble down to earth to nurse, scramble back up to her vertiginous laboratory and then drive home (avoiding kangaroos by sheer luck — "I am embarrassed to admit," she notes — too harried to register the exoticism of her daily difficulties) in time to make dinner for her baffled herder husband.

"I PURSUED my housewifery with great seriousness, in addition to my science," she writes. "I secretly believed that if my in-law could see that scientific pursuits did not preclude attention to housewifery, they might be supportive of my academic career." Determined to continue her groundbreaking work, she struggled to be not only Supermom but Spider-Man. Luckily for the female biologists who will learn from Lowman's struggle and seek to follow in her agile footsteps, she never took the time to ask herself if such a feat was possible. As a sign of the futility of her efforts to win over her husband's family, her sister-in-law once gave her a poem that extolled the drudgery and sacrifice of the good outback wife, beginning "They're the wife and the mothers of men on the land / Just cooking, encouraging, lending a hand" and concluding "Your who selfless life is an unwritten poem." Lowman didn't think so. In 1990 she left Australia with her two sons and took up a fellowship at her alma mater, Williams College. She never returned to her housewife life in the outback, and she has never abandoned her home in the trees.

With a wonderfully plain-spoken approach, based on nature appreciation, scientific observation and unimpeachable explanation, Lowman engages the evrophiles among us who grew up watching friendly-nerd-science programs like "3-2-1 Contact" and who still yearn to brush dust off a stegosaurus bone or personally resuscitate a patch of rain forest or merely see an IMAX film on the Amazon before we die. She has become the mentor she never had. Her book admirably shows that a woman who is unwilling to accept impossibility can not only rock the cradle. If she can write her own script, she can carry her cradle in the treetops of the rain forest — at rock the tree.