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Bumpers College Students in Action

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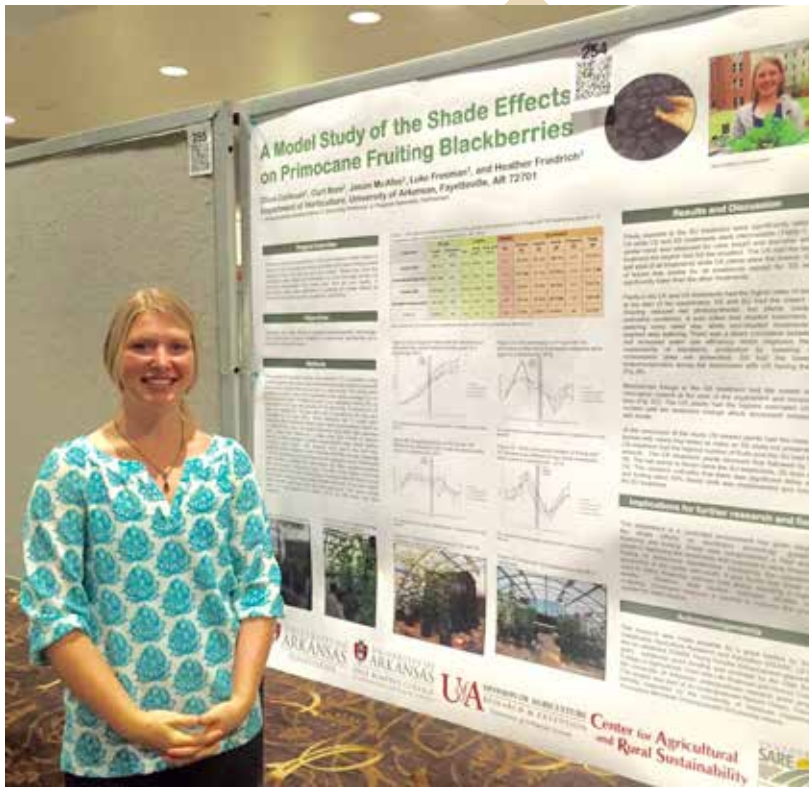
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Bumpers College Students In Action



Olivia Caillouet. (Horticulture). (left) presenting her Greenhouse Experiment in the 2015 National American Society for Horticultural Science (ASHS) poster competition in New Orleans, Louisiana. Caillouet received 3rd place among undergraduates from across the nation. This travel was funded by Bumpers College, the Honors College Travel Grant, and Horticulture Department Michener Undergraduate Scholarship Award. (below) Olivia takes chlorophyll and gas exchange measurements of her blackberry plants. Her research on blackberries and internship at the Arkansas Agricultural Experiment Station, Fayetteville was made possible by a grant funded by Southern Sustainable Agriculture Research and Education (SSARE; LS12-250) and an additional S-SARE Young Scholar Enhancement apprenticeship grant.



Internships



Olivia Caillouet. (Horticulture).
(Left) Olivia learned about bee-keeping during internships in both California and Puerto Rico. She describes it as a life-changing experience, “I love the connection it shares with horticulture – it’s such a symbiotic relationship. So much of the food we eat wouldn’t be possible without pollinators.” In this photo they are providing the weaker hives with supplemental sugar water. Olivia states that “this process is not ideal, however necessary in some instances to build the strength of hives prior to spring bloom and the honey production cycle of the year.”

California

Puerto Rico



(above) Harvesting bananas in Puerto Rico at La Tierra Verde farm, which is privately owned by a family from Arkansas, for only 6 months at the time Olivia arrived. **(left)** Olivia harvests Meyer lemons at the 20 year old Country Flat Farm in Big Sur, California. With approval from Curt Rom, her honors thesis advisor, she interned there through the World Wide Opportunities on Organic Farms program for course credit at the organic orchard. She says of the two farms that they provided a great contrast between a farm just starting out and one that has been operating for decades. She also learned that she has “a passion for teaching and sharing my knowledge of ecologically sound farm practices with others.”



Mitchell Pruitt. ((Environmental, Soil, and Water Science). The summer after graduation, Mitchell participated in a conservation science internship at Hawk Mountain Sanctuary, the world's premier raptor research organization, near Orwigsburg, Pennsylvania. He was a field experience intern and was involved, mainly with their American Kestrel nest box monitoring program, but also with Turkey Vulture road surveys and with capturing/ tagging Black Vultures. This was a wonderful experience that he says helped increase his knowledge in raptor conservation, as well as instill a desire for raptor research in his future career. Mitchell is pictured **(left)** with a newly tagged Black Vulture ready for release!



Pennsylvania

(Above and left) nestling American Kestrels (both males) that were two of over 100 individuals banded by Mitchell and colleagues this summer. The ladder is going up to the nest box.



Service Learning Experience Abroad

Paige Acklie. (Agribusiness). (Left) Paige cradles a chick during her travel abroad experience to Nampula, Mozambique through the Community Development in Mozambique summer program, which unites teams of poultry science, business and engineering students who tackle problems that range from assessing chick quality to corraling data from 33 different chicken farmers. During this hands-on service learning experience at New Horizons poultry farm Paige was part of the "Surveying Hunger" team which collected data surveying the diet of 60 families in the area, comparing the health of outgrowers to those not employed by New Horizons. (below) from left: Maggie Jo Hansen (center), translator Ibrahim Hamido and Paige Acklie conduct a dietary survey.



International Research Experience



Dylan Milholen (Environmental, Soil, and Water Science). Dylan participated in a CAFLS International Research Experience during the summer of 2015 in Brazil. He studied at UFPel in Pelotas, Rio Grande do Sul. **(Above) 3rd from right standing ???.** **(below)** He is pictured (4th from right) with graduate students standing in the research field on the UFPel farm after collecting grass samples to analyze their chemical compositions.



Field Research



Mitchell Pruitt. (Environmental, Soil, and Water Science). These photos were taken during two field seasons researching the occurrence of the Northern Saw-whet Owl in northwest Arkansas, a species previously not known to occur regularly in Arkansas. The first photo (top left) includes Mitchell with the first bird captured in fall 2014, proving the species' existence in the state during fall migration. **(below)** a bird in front of the banding setup. **(bottom)** a saw-whet being banded. Note the equipment: Pesola spring scale, aging diagrams, banding pliers, string of bands, field notes. All birds were captured at the Ozark Natural Science Center in Madison County, northeast of Fayetteville.



Oral and Poster Presentations at Conferences



Jack McCoy. (Horticulture). (Above) Pictured at the Southern Region American Society of Horticulture Science conference in San Antonio, February 2016, with his presentation entitled "Evaluation of Harvest Time/Temperature on Postharvest Incidence of Red Drupelet Reversion Development and Firmness of Blackberry (*Rubus L. subgenus Rubus* Watson)". **(Below)** Pictured with his 2nd place award in the paper competition with his mentor, Distinguished Professor John Clark. For this same presentation, he also won 3rd place in the Gamma Sigma Delta undergraduate oral competition.

