

CARL SCHLICHTING RETURNS TO FULL TIME TEACHING AND RESEARCH

On June 30, 2019 Dr. **Carl Schlichting** returned to full time teaching and research responsibilities after serving as EEB's Department Head for 5 1/2 years (2014-2019). Carl received his B.S. in Zoology from Ohio State University, M.A. in Ecology and Evolution from SUNY at Stony Brook, and a Ph.D. in Botany from the University of Texas (Austin). Carl joined the EEB Department in 1988 as Assistant Professor at the Hartford campus. In 2000 he was promoted to Professor and joined the faculty in Storrs in 2002.

He is looking forward to finishing some manuscripts and analyzing some old (*Phox* and *Lobelia*) and new (*Pelargonium*) datasets that have been awaiting his attention!

During Carl's tenure as Head, EEB welcomed eight new faculty members, six at Storrs and one each at Hartford and Stamford. Although he takes little credit, he notes that Department grant expenditures have risen by 40% to \$3.5M/year, and the number of EEB majors has risen from 55 to 80. Carl performed day-to-day management of the multi-year planning process for EEB's eventual move into a newly renovated Gant Building, as well as the negotiations for a new Greenhouse facility. He will continue to manage the planning and move into EEB's new Gant space. The exact dates of the two-phase moves will be announced in an upcoming newsletter so stay tuned.

Faculty, students and staff are grateful to Carl for his leadership and support during his tenure as Department Head.

Dr. **Metin Coşgel** assumed the position of Interim Department Head on July 1, 2019. Dr. Coşgel is Professor of Economics at UConn. His current research interests include the origins and economic effects of religious diversity and the deep historical roots of comparative development in the Middle East and Eastern Europe. He is the author of *The Economics of Ottoman Justice: Settlement and Trial in the Sharia Courts* (with Boğac Ergene), Cambridge University Press (November, 2016).

BEST WISHES FACULTY RETIREES

Dr. **Eldridge Adams** (22 years). Eldridge received his B.A. from Harvard University and his Ph.D. in Zoology from the University of California, Berkeley. He joined EEB in 1997 as Assistant Professor and was promoted to Professor in 2007. Eldridge introduced many ideas to the study of animal territories, and the determinants of their sizes, and made key contributions to understanding the outcomes of interactions at boundaries of two territories. His empirical work was largely on ants and termites. Eldridge was a dedicated teacher and was recognized for this with the AAUP Award for Excellence in Graduate Teaching.

Dr. **Don Les** (27 years). Don joined the EEB Department in 1992 in the dual role as Associate Professor and Curator of the George Safford Torrey Herbarium (CONN). He has served continuously as the Curator of the Herbarium. Don is the world's foremost expert on Aquatic Plant biology, with two monumental works on the aquatic monocots and dicots. He was one of the early leaders in large scale molecular phylogenetics of plants.

Dr. **Charlie Yarish** (43 years). has been the Biology anchor at the Stamford campus and an original member of EEB. In addition to his years of taxonomic work on algae, he is one of the giants in the field of algal aquaculture. revolutionizing techniques, developing strains and being a global ambassador for it. He just received the 2019 *Phycological Society of America's Award of Excellence* for his many years of contributions to Phycology. Charlie remains full of enthusiasm for his ongoing projects and if he is slowing down, there is no obvious sign yet!

CONGRATULATIONS MORGAN

Dr. **Morgan Tingley** has accepted a position as Assistant Professor with UCLA; he will leave for California at the end of the Fall, 2019 semester. Morgan joined EEB in 2014 as a Assistant Professor and is an ornithologist, conservation biologist, and community and quantitative ecologist. His research focuses on how large-scale anthropogenic drivers of change (e.g., climate change, invasive species, land-use change, fire regimes) affect geographic distributions and community interactions over short (years) to long (centuries) timespans.

UConn Recognizes Greg Anderson's Lifetime of Environmental Leadership

From the moment in 1973 that he arrived in Storrs as an Assistant Professor in the EEB, Greg Anderson has been a campus environmental leader, dedicating time and effort, above and beyond his internationally recognized research and academic pursuits, to making UConn a more sustainable campus.

More than four decades later, the Board of Trustees' Distinguished Professor who also served as Department Head, then Vice Provost for Graduate Research and Education, was acknowledged for his environmental work when UConn presented Anderson with the first Environmental Leadership Award for Lifetime Achievement.

Even as an emeritus faculty member working in Torrey Life Sciences lab, Anderson is still as active, engaged and passionate about the environment, said Rich Miller, Director of the Sustainability Office at UConn, who presented the award to Anderson in an April, 2019 ceremony.

During Anderson's half-century of work, he founded and led the committee that oversees the Teale Environmental Lecture Series; established and co-chaired the Campus Arboretum Committee; and advocated for UConn's signing of a Climate Action Plan (CAP) for carbon neutrality by 2050. The CAP has since driven the university's sustainability efforts, which have resulted in successes acknowledged by the Sierra Club and GreenMetric World University rankings, said Miller.

Last year, Anderson worked with the co-president of EcoHusky to begin a tradition of planting a graduating Class Gift Tree, using crowd-sourced funding by students and friends of the Arboretum, plus tools and expertise provided by UConn's landscape architect and arborists.

"The inaugural UConn Environmental Leadership Award for Lifetime Achievement looks great in the hands of Greg Anderson, the heart and soul of UConn's environmental movement for more than four decades," said Miller.



Eileen McHugh, UConn tree warden, left, Richard Brown, Distinguished Professor Emeritus of History, Natalie Roach '21 (CLAS) and Greg Anderson, Distinguished Professor Emeritus of EEB. Participate in the ceremonial planting of the Class of 2019 tree near William H. Hall Building on October 23, 2018.

*Photo by Peter Morenus/
UConn*

*Adapted from a UConn Today Article—combined reports
UConn Communications*

EVIDENCE SHOWS EVOLVING NATURE OF MOSS

In a *Nature Communications* paper published in April 2019, an international research team including EEB's **Bernard Goffinet** used DNA-sequencing technology to reconstruct the family tree of mosses, which go back at least 400 million years.

Based on comparison of 142 species of moss from 29 of the 30 orders of mosses in existence, the researchers were able to re-evaluate what was known of moss evolution and suggest an overall phylogenetic (family) tree. The resulting evolutionary history of mosses also represents a more robust framework to study the evolution of major morphological innovations.

The study analyzed hundreds of genetic sequences from the nuclei of the mosses but also from other cellular components, or organelles, called plastids and mitochondria. To their knowledge, the researchers write, this is the first study to take such a holistic approach. The team found that mosses have been extremely dynamic throughout their evolutionary history – much more so than seed-based plants. The results also give insight into the rate of evolutionary changes, especially big changes that result in the creation of different branches of the phylogenetic tree.

Mosses are widespread and are found in all non-marine ecosystems across the globe, often playing critical ecological roles, such as in nutrient cycling. Having been around for at least 400 million years, and having maintained what seems to be a fairly simple architecture, mosses were long thought to be “sphinxes” of the past or evolutionary dead ends, but are now emerging as highly dynamic lineages.

Due to their long heritage, mosses have been faced with great changes over the course of their existence, which may have led to their fascinating diversity. From external forces such as mass extinction events, to changes in global temperatures, or internal forces such as whole genome duplications, mosses have persisted and adapted to numerous challenges. Their diversity reflects major and unique abilities to withstand and adapt to challenging environments such as those on rock surfaces and tree trunks.

Mosses are also adapted to changeable conditions, whereas very few flowering plants can survive without roots and rely solely on rain or even moisture supplied only by fog not only to water them but also to “feed” them, Goffinet says.



This example of *Aphanorhegma serratum*, a species endemic to eastern North America (and found on UConn's main campus) shows both stages of the moss life cycle, with the circular structures representing the reproductive stage along with the more familiar gametophyte stage. (Bernard Goffinet/UConn Photo)

EVOLVING NATURE OF MOSS CON'T

Studying the evolution of mosses had been a challenge until the advent of DNA-sequencing technology, partly because of the absence of mosses in the fossil record, but also because of their great diversity. Even with DNA technology, many ambiguities have persisted as the DNA studies contradict previous inferences. Goffinet says DNA-based inferences are critical to resolving the relationships of dynamic lineages such as mosses.

“The focal point of the study is to address the evolution of the peristome, a structure that controls or aids in spore dispersal,” he says. “This structure is to the moss evolutionary systematist what the flower is to the flowering plant systematist: it is thought to inform us on relationships. Mosses with the same peristome architecture should be more closely related than mosses with different peristomes.

“Since morphology may be misleading,” he continues, “DNA sequences are seen as an independent source of information from which to reconstruct or infer relationships, and thereby test hypotheses. DNA may reveal signatures of shared ancestry that have been erased from the morphological space, due to convergent or reverse evolution.

“The way you are built and the way you look is not always the best indicator of your evolutionary story.”

Studies like this rely on [biodiversity collections](#) at [UConn](#) and elsewhere as sources of tissue for DNA extraction, says Goffinet, and without these collections it would not be feasible to perform this research.

*— adapted from UConn Today article
by Elaine Hancock*

TROPICAL FORESTS NATURALLY REGROW QUICKLY, BUT WITHOUT SPECIES VARIETY

Tropical forests are threatened by high levels of deforestation, mostly driven by agricultural expansion. But, once agricultural fields are abandoned, they tend to naturally regrow, leading researchers to ask whether that process reverses species loss and brings native species back. An international team of ecologists inventoried trees in 1,800 tropical forest plots located in 56 sites across 10 countries in Latin America, and found that forests recover growth in a few decades, but that it may take centuries before the abundance of the species present returns to the what is found in old-growth forests.

Secondary forests now make up as much as 28 percent of the land area in Latin America. Tree species found in regrowing forests are usually different from those in neighboring old-growth forest, according to the paper published in [Science Advances](#). After 20 years of regrowth, only 34 percent of the original species composition recovered.

Researchers used plot data from secondary forests of different ages and compared it to neighboring, well-conserved, old-growth forests. The team included EEB’s Professor Emerita, Robin Chazdon, and colleagues across Europe and Latin America.

“It is great news that natural regeneration can restore tree biodiversity relatively fast,” says Chazdon. “However, targeted restoration actions for the introduction of typical old-growth species, as well as the conservation of old-growth forests, may be necessary to guarantee long-term conservation of tropical tree species.” This study has direct implications for forest restoration policies and practice. Natural forest regeneration has typically been viewed as an ecologically sound way to restore large areas of forest at lower costs compared to active tree plantings.

Natural forest regeneration may therefore be the ideal method to meet the goal to restore 350 million hectares of forest in 2030, as set under the [Bonn Challenge](#). But tropical forests, home to more than 53,000 tree species, account for 96 percent of the global tree diversity.

TROPICAL FORESTS NATURALLY REGROW CON'T

“While young secondary forests contribute importantly to biodiversity conservation in these modified landscapes, they do not contain many of the species found in well-conserved forests,” says co-author Lourens Poorter, leader of the [2ndFOR network](#). “Both secondary and old-growth forests must be preserved to guarantee biodiversity conservation in human-modified landscapes.”

Chazdon stresses that both secondary and old-growth forests are important for conserving biodiversity and providing resources for wildlife. Lead author Danaë Rozendaal, from Wageningen University in the Netherlands, agrees.

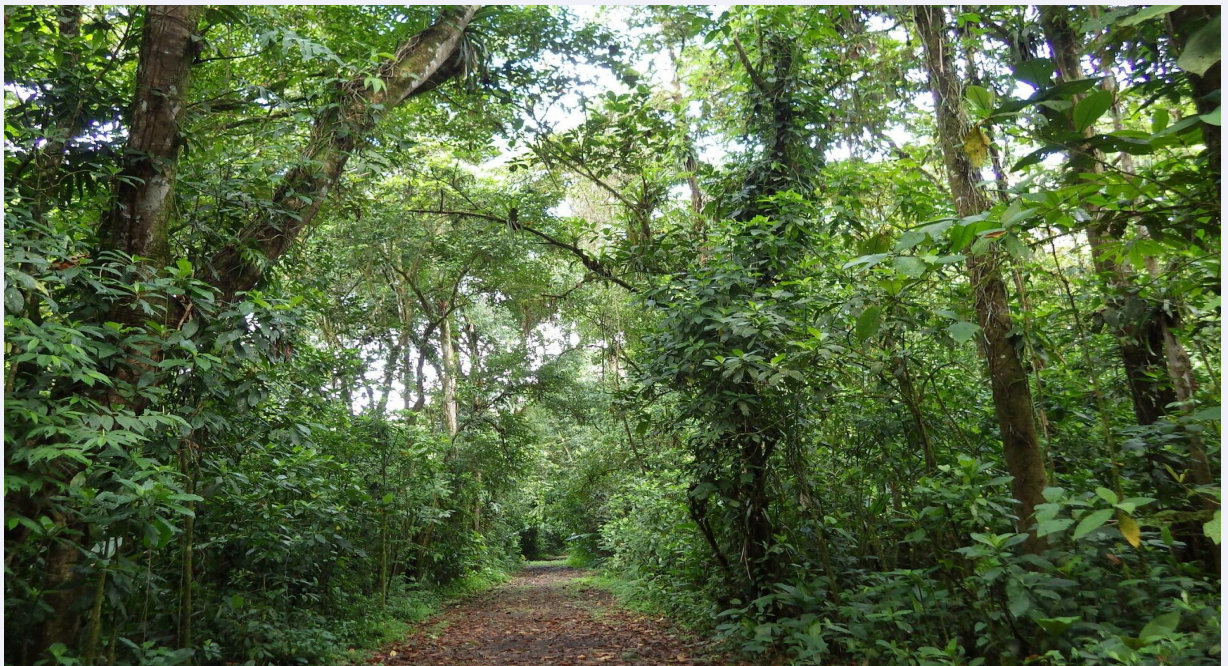
“We were impressed to find that it takes only five decades, on average, to recover the total number of species found in well-conserved old-growth forests, and that within only 20 years, already 80 percent of the number of species is present,” says Rozendaal. “This emphasizes the importance of secondary forests for biodiversity conservation in human-modified tropical landscapes.”

To learn more about Chazdon’s efforts to restore forests world-wide, follow her on the People and Reforestation in the Tropics Network for Education Research and Synthesis (PARTNERS) [website](#) and [blog](#).

Chazdon’s work was supported by: NSF DEB: 1147429; NSF DEB 0639393.

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*— adapted from UConn Today article
Combined Reports UConn Communications*



Forests recover growth in a few decades, but it may take centuries before the species diversity returns to the original composition, according to a study co-authored by Robin Chazdon of UConn.

AWARDS

FACULTY

Michael Finiguerra (Avery Point Campus) received the *2019 AAUP Early Career Teaching Award*.

Carlos Garcia– Robledo received a Fall 2019 *Scholarship Facilitation Fund (SFF)* award for his project entitled *Using DNA and artificial seeds to understand seed dispersal by elusive mammals on a tropical mountain.*”

Cindi Jones received a *2019 Teaching Innovation Award* from UConn’s Center for Excellence in Teaching and Learning.

Sarah Knutie received a Fall 2019 *Scholarship Facilitation Fund (SFF)* award for her project entitled *Incorporating citizen science into understanding the geographic mosaic theory of co-evolution.*

Louise Lewis was awarded the *2019 Darbaker Prize in Phycology* by the Botanical Society of America. This award is presented to a North American resident for meritorious work in the study of microscopic algae based on papers published in English during the last two full calendar years.

Chris Simon received the *UConn Alumni Relations Faculty Excellence Award for Excellence in Research and Creativity*.

Dave Wagner received a *UConn Faculty Award for Environmental Leadership*.

Charlie Yarish received a *Lifetime Achievement Award* from the *Phycological Society of America*.

Yaowu Yuan received the *2019 AAUP Early Career Research Award*.

Robert Thorson was elected to the American Antiquarian Society. Thorson joins fourteen U.S. presidents who have been AAS members, in addition to historical notables such as Daniel Webster, Henry Clay, Alexander Graham Bell, and more contemporary members such as Ken Burns, Doris Kearns Goodwin, Walter Cronkite and Henry Louis Gates.

Twenty-two EEB faculty at Storrs, Avery Pt, Hartford, Stamford and Waterbury campuses were recognized by the Provost for their excellence in teaching. **Storrs**—Janine Caira, Pam Diggle, Carlos Garcia-Robledo, Adam Fry, Susan Herrick, Elizabeth Jockusch, Cindi Jones, Sarah Knutie, Louise Lewis, Paul Lewis, Jane O’Donnell, Margaret Rubega, Jeff Seemann, Morgan Tingley, Yaowu Yuan

Avery Point— Michael Finiguerra; **Hartford** — John Cooley; **Stamford** — Claudia Kraemer; **Waterbury** — Melissa Durstin, Paula Philbrick, Susan Preston-Berlin, Stephen Trumbo.

GRADUATE STUDENTS

The EEB Department awarded nearly \$29,000 in research awards to 26 graduate and undergraduate students during its annual Spring research award competition.

Awards for botany research were granted to: **Laura Bizzari, Georgia Hernandez-Corrales, Amy LaFountain, Susan McEvoy, Valerie Micili and Lauren Stanley.**

Awards for zoology research were granted to: **Samantha Apgar, Halle Berger, Elizabeth Clifton, Becca Colby, Annette Evans, Eliza Grames, Amandas Hewes, Kevin Keegan, Tanner Matson, Graham Montgomery, Chris Nadeau, Mia Nahom, Anna Puckloff, Sean Ryan, Austin Spence, Andrew Stillman and Grace Vaziri.**

AWARDS

GRADUATE STUDENTS CON'T

Annette Evans, Eliza Grames, Austin Spence, Anna Sjodin, and Andrew Stillman received *2019 Doctoral Student Travel Awards* from UConn's Office of the Vice Provost for Graduate Education.

Becca Colby (Eric Schultz, advisor) received a *2019 Grant in Aid of Research from Sigma Xi*. Becca also received a *100 Year of Women Scholarship* from UConn's Women's Center.

Georgia Hernandez-Corrales, (Carlos Garcia-Robledo, advisor), **Grant Montgomery** (Morgan Tingley, advisor), and **Grace Viziri** (Sarah Knutie, advisor) received *2019 Mamont Scholarships* from the Explorer's Club.

Early in 2019, **Georgia Hernandez-Corrales** received the *2017-2018 Environmental Leadership Award* from UConn's Office of Environmental Policy and Environmental Policy Advisory Council for her continuous contribution to educations of minorities in STEM. Georgia also received the *2019 New Phytologist Trust Award*.

Tanner Matson (David Wagner, advisor) received a *Smithsonian Institute Fellowship Program Graduate Student Fellowship* to spend 10 weeks at the Smithsonian this summer.

Val Milici (Robert Bachi, advisor) received funding from the *American Philosophical Society's Lewis and Clark Fund*.

Graham Montgomery received a 2019 Honorable Mention for the NSF Graduate Research Fellowship. Graham received funding from the *American Philosophical Society's Lewis and Clark Fund*.

Katie Taylor (Charlie Henry, advisor) and **Grace Viziri**, (Sarah Knutie, advisor) received *2019 Animal Behavior Society Student Research Grants*.

Tanisha Williams (Kent Holsinger/Carl Schlichting co-advisors) won the *Best Poster Award in the Ecology Section* at the 2019 Botany Conference in Tucson, AZ.

SUMMER UNDERGRADUATE RESEARCH FUND (SURF) AWARDS

The following undergraduate students, mentored by EEB faculty, received 2019 Summer Undergraduate Research Fund (SURF) Awards. This award program supports UConn full-time undergraduate students in summer research and creative projects. Of the forty-five 2019 awardees, EEB faculty mentored 7 — the largest number of SURF awardees for EEB in recent history.

Sarah Baker (2020) is working with Elizabeth Joekusch. Sarah's research project is titled: *The Impact of Distance from a Stream on Color Morph Distributions of Plethodon cinereus, the Eastern Red-Backed Salamander*.

Christian Connors (2020) is working with Robert Bagchi. Christian's research project is titled: *The Effect of Forest Fragmentation on Interactions between Insect Herbivores and their Parasitoids*.

Nathaniel Davino (2021) is working with Chris Elphick. Nate's research project is titled: *Structural Modifications to Tidal Marsh Bird Eggs to Reduce Incubation Periods*.

Jordana Graveley (2021) is working with Margaret Rubega. Jordana's research project is titled: *Differences in Feather Number and Feather Wear Cause Seasonal Variation in the Insulation of House Sparrows (Passer domesticus)*

Mia Nahom (2020) is working with Sarah Knutie. Her research project is entitled: *Effect of Gut Microbiota on Developmental Immunity and Parasite Load in Tree Swallows (Tachycineta bicolor)*

Amanda Pastore (2020) is working with Mark Urban. Her research project is entitled: *Increasing Levels of Carbon Dioxide in Freshwater may Mediate the Predation of the Keystone Species Daphnia Magna*

Jason Vailionis (2021) is working with Chris Simon. His research project is entitled: *Symbiont Replacement by*

AWARDS

EEB UNDERGRADUATE AWARDS

Zoe Mandese received the *2019 Outstanding Senior in EEB Award* for her research in Charlie Henry's lab.

IDEA GRANT RECIPIENTS

The UConn IDEA Grant provides an opportunity for students to engage in self-designed creative, innovative and original projects, including artistic endeavors, entrepreneurial ventures, research projects and service initiatives. The possibilities are endless. Undergraduate researchers working with EEB faculty who won 2019 IDEA grants include:

Alyssa Adesso (2020) won a research award for her project, *Exploring the Relationship Between the Microbiome and Immune System in Zebrafish*. Alyssa is working with Sarah Knutic.

Jeremy Bennett (2021) and **Ava Fritz** (2020) won a project award for their project, *Investigating Genetic Variation in White Ash to Reduct Tree Mortality against Invasive Species*. Jeremy and Ava are working with Jill Wegrzyn.

Taylor Grunert received an Aetna Writing in the Disciplines Award for her paper, *Temperate Forest Phenology Under Climate Change*. Carlos Garcia– Robledo was Taylor's writing instructor.

Sophie Lacombe also received an Aetna Writing in the Disciplines Award for her paper, *Dynamic Thermoregulation of the Eusocial Bee Colonies and the Impact of Climate Change*. Chris Elphick was Sophie's writing instructor.

ALUMNI

Manette Sandor (Ph.D., 2018 — Chris Elphick, advisor) was awarded the *2019 Greg and Mona Anderson Best Dissertation Award*. The cash award and certificate are presented for the best thesis in the general areas of systematics and/or ecology and evolution.

Ricardo Rozzi (Ph.D., 1999 — John Silander, advisor) was awarded the *Eugene P. Odum Award for Excellence in Ecology Education from the Ecological Society of America*. Odum Award recipients demonstrate their ability to relate basic ecological principles to human affairs through teaching, outreach, and mentoring activities.

PHI BETA KAPPA

EEB Majors **Weston Henry, John Loverin, Ryan Mayer** were inducted into Phi Beta Kappa at the end of the Spring 2019 semester. The Phi Beta Kappa Society is the oldest academic honor society in the United States, and is often described as its most prestigious honor society, due to its long history and academic selectivity.

NEWS FROM OUR ALUMNI

Dr. **Kaitlin Gallagher** (Ph.D. 2019—Janine Caira, advisor) accepted the coveted Bamfield Marine Station Post-Doctoral Fellowship. This 18 month fellowship, which is renewable, will support her to work on the flow dynamics of parasitic copepods of salmon and whale lice. Kaitlin will also teach a couple of field courses, all based out of the Bamfield Marine Station on Vancouver Island in Canada.

Dr. **Tanisha Williams** (Ph.D. 2019—Kent Holsinger/Carl Schlichting ,co-advisors) has accepted the Burpee Post-Doctoral Fellow in Botany at Bucknell University). She'll be working with EEB Alum Chris Martine (Ph.D. 2006—Greg Anderson, advisor). She'll be working on one project involving the local flora in Pennsylvania and on another involving use of spiny *Solanums* (eggplant relatives) by indigenous people in remote regions of the Kimberly Mountains in northwestern Australia.

Dr. **Kevin Burgio** (Ph.D 2017—Margaret Rubega, advisor) has accept a position with the Cary Institute of Ecosystem Studies in Millbrook, NY as the Undergraduate Research Program Leader and Research Specialist. Kevin will conduct cutting edge research about undergraduate research in science and co-lead the Translational Ecology for Undergraduates Program at Cary Institute and the Sustainable Urban Water Undergraduate Research Program through the Urban Water Innovation Network .

Dr. **Timothy Moore** (Ph.D. 2018 — Carl Schlichting, advisor) a Post Doc in Carl Schlichting's lab has accepted the position of Director of the Statistical Consulting Services in UConn's Center for Open Research Resources & Equipment (COR²E).

Dr. **Anna Sjodin** (Ph.D. 2019—Mike Willig advisor) has accepted a Postdoctoral Fellowship with Dr. Scott Nuismer at the University of Idaho. Anna will be working on a research project entitled "Forecasting spillover of Lassa Fever virus from wildlife to human hosts."

Dr. **Alejandro Rico Guevara** (Ph.D. 2014—Margaret Rubega, advisor) has an accepted an offer at the University of Washington, where he will be Assistant Professor of Biology, Curator of Ornithology at the Burke Museum of Natural History, Washington Research Foundation Distinguished Investigator, and will assume the Walt Halperin Endowed Professorship in Biology.

Dr. **Kristiina Hurme**, (Ph.D. 2011—Kent Wells, advisor) has accepted an offer as a Lecturer in the Department of Biology at the University of Washington.

Dr. **Johana Goyes Vallejos** (Ph.D. 2016— Kent Wells, advisor) has accepted the 2-year Preparing Future Faculty Postdoctoral Fellowship for Faculty Diversity at the University of Missouri.

Bug Week AntU Day: July 25, 2019 UConn Biology/Physics Building lobby and the EEB Greenhouses



AntU Day 2019 was a great success!

More than 250 visitors attended this year's AntU Day, a part of UConn Extension's annual Bug Week program. The event began with a showing of the documentary *The Love Bugs*, which tells the story of Charlie and Lois O'Brien and their remarkable collection of over one million weevils and planthoppers. This was followed by a talk by Dr. Jane O'Donnell, Collection Manager of Invertebrates in the Biodiversity Research Collections, titled "Bugs, Butterflies, Beetles, and More: Learn to Identify the Common Groups of Insects".

Participants spent the rest of the afternoon touring the Biodiversity Research Collections, completing a scavenger hunt in the UConn Rainforest, learning about fungal ant colonies and how to identify common bugs from experts in biology, and discovering the wonders of silk worms with members of the Mansfield Historical Society.

Check the Army Ant Guest Collection Facebook page for project updates and additional information:
<https://www.facebook.com/UConnArmyAntGuests/>



AntU Day is presented by the Department of Ecology & Evolutionary Biology and the Connecticut State Museum of Natural History. UConn Extension Bug Week is a College of Agriculture, Health and Natural Resources annual event:
<http://bugs.uconn.edu/>

— Article written by Beth Barbeau

EEB IN THE NEWS

California's Mega Fires Are Now So Extreme That Even The Birds That Need Wildfires to Survive Can't Deal with Them – **Kashmira Gander** *Newsweek (Stillman)* 8/19/19 <https://www.newsweek.com/california-mega-fires-extreme-birds-wildfires-1452566>

UConn Launches Institute of the Environment – **Elaina Hancock** *UConn Today (Willig)* (7/26/19) https://today.uconn.edu/2019/07/uconn-weaves-research-teaching-engagement-institute-environment/?utm_source=listserv&utm_medium=email&utm_campaign=daily&utm_content=uconn-today

Summer Undergraduate Researcher Christian Connors '20 (CLAS) – **Mike Enright** *UConn Today (Connors)* 7/17/19 https://today.uconn.edu/2019/07/summer-undergraduate-researcher-christian-connors-20-clas/?utm_source=faculty-staff-daily-digest&utm_medium=email&utm_campaign=daily

Summer Undergraduate Researcher Sarah Baker '20 (CLAS) – **Mike Enright** *UConn Today (Baker)* 7/10/19 https://today.uconn.edu/2019/07/summer-undergraduate-researcher-sarah-baker-20-clas/?utm_source=faculty-staff-daily-digest&utm_medium=email&utm_campaign=daily

Opportunities Exist to Restore Tropical Rainforests – Here's how we Mapped them – **Robin Chazdon** *UConn Today* (7/10/2019) https://today.uconn.edu/2019/07/opportunities-exist-restore-tropical-rainforests-heres-mapped/?utm_source=student-daily-digest&utm_medium=email&utm_campaign=daily

Meet Australia's new Sex-Changing Tomato: Solanum Plastisexum – **Livia Albeck-Ripka** *NY Times (Martine)* 6/18/2019 <https://www.nytimes.com/2019/06/18/world/australia/tomato-sex-nonbinary.html?smid=nytcore-ios-share>

Watch How Hummingbird Hackers Keep Up With Their Quick, Tiny Subjects – **Jessica Leber** *Audubon Magazine (Rico-Guevara)* (Spring 2019) https://www.audubon.org/magazine/spring-2019/watch-how-hummingbird-hackers-keep-their-quick?fbclid=IwAR1gfoxT51c9hd35PswwqTm1PLxozy-GLBhLk9OdjloTyVUq1_Tu_8olk1c

UConn Talks/In the Media *UConn Magazine (Wagner and Schwenk)* <https://magazine.uconn.edu/2019/06/14/uconn-talks-summer-19/>

1 million species under threat of extinction because of humans, biodiversity report finds – **Denise Chow** *MACH (Wagner)* 5/6/19 <https://www.nbcnews.com/mach/science/1-million-species-under-threat-extinction-because-humans-report-finds-ncna1002046>

This Animal Bit onto 'Science Cookies' and Revealed Data – **Elaina Hancock** *UConn Today (Kuprewicz and Garcia-Robledo)* 4/30/19 https://today.uconn.edu/2019/04/animal-bit-onto-science-cookies-revealed-data/?utm_source=listserv&utm_medium=email&utm_campaign=daily&utm_content=uconn-today

2019 PUBLICATIONS

- Acasuso-Rivero, C., C. J. Murren, C. D. Schlichting and U. K. Steiner. 2019. Adaptive phenotypic plasticity for life-history and less fitness-related traits. *Proceedings of the Royal Society B* 286: 20190653. DOI: 10.1098/rspb.2019.0653
- Almeida, D. R. A., E. N. Broadbent, A. Almeyda Zambrano, B. Wilkinson, M. E. Ferreira, R. Chazdon, P. Meli, E. Gorgens, C. A. Silva, S. C. Stark, R. Valbuena, D. Papa, and P. H. S. Brancalion. 2019. Monitoring the structure of forest restoration plantations with a drone-lidar system. *International Journal of Applied Earth Observation and Geoinformation* 79: 192-198. <https://doi.org/10.1016/j.jag.2019.03.014>
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- Augyte, S., C. Yarish, and C. D. Neefus. Thermal and light tolerance on the early growth stages of the kelp *Saccharina angustissima* (Laminariales, Phaeophyceae). *ALGAE* 34(2): 153-162. <https://doi.org/10.4490/algae.2019.34.5.12>
- Ayres, DL, MP Cummings, G Baele, AE Darling, PO Lewis, DL Swofford, JP Huelsenbeck, P Lemey, A Rambaut, and MA Suchard. 2019. BEAGLE 3: Improved performance, scaling, and usability for a high-performance computing library for statistical phylogenetics. *Systematic Biology*, syz20 (online 23 Apr 2019) (<https://doi.org/10.1093/sysbio/syz20>)
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