# Layla Aerne Hains Principal Investigator California Phenology (CAP) <u>laerne@sdnhm.org</u>

Layla is the Collection Manager at the San Diego Natural History Museum. She has a M.S. in Plant

Systematics from San Diego State University and over 10 years of experience with the flora of San Diego County. Jason Alexander Biodiversity Informatics Manager California Phenology (CAP) Consortium of California Herbaria jason\_alexander@berkeley.edu

Jason is the Bioinformatics Manager for the University and Jepson Herbaria and the Coalition of California Herbaria Portal located at the University of California, Berkeley.





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Ryan is based at the University of Colorado Herbarium. Ryan previously served as project

manager for COLO's portion of the Tri-Trophic TCN, Lichen and Bryophyte PEN and a Colorado focused IMLS Project. His research interests include niche modeling, biogeography, and the role biodiversity informatics can play in museum collections.

Jonathan Bloch Co-Principal Investigator Overt: Open Exploration of Vertebrate Diversity in 3D jbloch@flmnh.ufl.edu

Jon is Chair of the Natural History Department at the Florida Museum of Natural History and Curator of Vertebrate Paleontology. His research interests include Eocene mammals,

mammalian responses to climate change, phylogenetics, and functional morphology.

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Abraham Bamba-Kaya Collaborator Institut de Recherche Agronomique et Forestiere, Gabon <u>ismaelbamba842@gmail.com</u>

Abraham's research interests include aquatic biodiversity, conservation, and investigating



amphibian declines. He has participated in expeditions, assessments, and surveys of amphibians in various localities in Gabon and in Republique of Congo and helped to organize Gabon biodiversity collections.

Diego Barroso Project Manager Microfungi Collections Consortium (MiCC) barroso@illinois.edu



Diego is affiliated with the Illinois Natural History Survey, and has been Project Manager

for MiCC since May 2018. Prior to this, he was at the University of Michigan working on the Great Lakes Invasives, FishNet2, and InvertEBase TCNs. He has a background in biochemistry and neuroscience, and is now interested in Bioinformatics and managing digital assets and research data. Teri Barry Collections Manager California Phenology (CAP) tcbarry@ucdavis.edu

Teri is Collections Manager at the UC Davis Center for Plant Diversity Herbarium. She is interested in how plant



distribution varies with climate change, habitat, disturbance, and the presence of invasive species.

James Beach Director, Specify Collections Consortium Co-PI, Paleoniches; Cretaceous World beach@specifysoftware.org

James is Assistant Director of the University of Kansas Biodiversity Institute and Director of the Specify Collections Consortium. He is interested in



the long term network integration and research engagement of traditional biocollections and modern biological samples, and in fomenting a resurgence of institutional awareness, value, and investment in collections and their associated data.

Jason Best Collaborator Southeast Regional Network of Expertise and Collections (SERNEC) Endless Forms Pteridological Collections Consortium (PCC) jbest@brit.org



Jason develops enabling technologies and processes to streamline the research activities at the Botanical Research Institute of Texas in Fort Worth. <u>ORCID 0000-0002-7414-5523</u> Scott Bates Collaborator Lepidoptera of North America Network (LepNet) Microfungi Collections Consortium (MiCC) <u>stbates@purdue.edu</u>



Scott is based at Purdue University Northwest. His research combines modern molecular and bioinformatics methods with classical approaches to investigate microbial diversity and more.

Reed Beaman Program Director National Science Foundation <u>rsbeaman@nsf.gov</u>

Reed is a Program Director in NSF's Division of Biological Infrastructure and his responsibilities include the ADBC



Program. If you have questions about submitting a TCN or PEN proposal, this is the person to see.

Cathy Bester Project Assistant/Event Coordinator iDigBio cbester@flmnh.ufl.edu

Based at the Florida Museum in Gainesville, Cathy is responsible for coordinating and organizing iDigBio



events. Cathy also maintains iDigBio's Facebook account. Cathy has over 15 years of experience in formal and information education and outreach since earning her MSc in Biological Sciences at Bowling Green State University.

# Rüdiger Bieler Co-PI, InvertEbase <u>rbieler@fieldmuseum.org</u>

Rüdiger is Curator of Invertebrates at the Field Museum specializing in Mollusca. His research interests span molluscan



phylogenetic systematics, regional marine biodiversity and coral reef restoration. He is also the Lead PI of the Bivalve Tree-of-Life project. <u>ORCID 0000-0002-9554-194</u>



Lisa Boucher Co-Principal Investigator Cretaceous World <u>lisadboucher@austin.</u> <u>utexas.edu</u>

Lisa is an Assistant Curator and paleobotanist at the University of Texas at Austin

where she started working in the Non-vertebrate Paleontology collections in 2017. Her current research focuses on Cretaceous macrofloras and the influence of spatial distribution on plant evolution. She has particular interest in paleogeographic and paleoenvironmental data digitization and visual analytics.

Herrick Brown Data Manager Southeast Regional Network of Expertise and Collections (SERNEC) herrick.brown@gmail.com



Herrick currently serves as Assistant Botanist for SCDNR - Heritage Trust Program and as Assistant Curator for the University of South Carolina's A.C. Moore Herbarium. David Blackburn Lead Principal Investigator oVert: Open Exploration of Vertebrate Diversity in 3D dblackburn@flmnh.ufl.edu

David is Associate Curator of amphibians and reptiles at the Florida Museum. He is a biologist studying evolution

and diversity of amphibians, with emphasis on frogs and Africa. Twitter - <u>@davidcblackburn</u> ORCID 0000-0002-1810-9886

David Boyd Graduate Student iDigBio <u>dboyd@flmnh.ufl.edu</u>

David is a collection technician in the ichthyology division of the Florida Museum and a Master's

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Ken Cameron Lead PI, Great Lakes Invasives (GLI) Co-PI, Endless Forms (EF) <u>kmcameron@wisc.edu</u>

Ken is Director of the Wisconsin

State Herbarium at UW-Madison where he is also Professor and Chair of the Department of Botany. His personal research is focused primarily on the systematics of the orchid family, especially Vanilla, which is a genus that is anything but bland or boring.





David Cannatella Program Officer National Science Foundation <u>dcannate@nsf.gov</u>

David is a professor at the University of Texas at Austin with interests in amphibian

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Dina Clark Co-Principal Investigator Plant Niches of the Southern Rockies (SoRo) <u>dina.clark@colorado.edu</u>

Dina is Collection Manager at the University of Colorado Herbarium (COLO) where she oversees daily



operations of the herbarium, supervises students, and assists with digitization work flows and grant oversight. Her research focuses on floristics of the High Plains.

Matthew Collins Technical Operations Manager iDigBio mcollins@acis.ufl.edu

Matthew is the technical operations manager and scientific programmer for UF's Advanced Computing



and Information Systems lab. He has over 20 years of IT experience focused on open source software development in cooperation with scientists and engineers. Most recently he has received an NSF EAGER grant to explore identifier practices in the biodiversity community. Ben Carter Principal Investigator California Phenology (CAP) <u>benjamin.carter@sjsu.edu</u>



Ben is Assistant Professor and Curator of the herbarium at San Jose State University. His research interests include bryophyte systematics and biogeography, with an emphasis on western North American taxa.

Neil Cobb Lead PI, Symbiota Collections of Arthropods Network (SCAN) Lepidoptera of North America Network (LepNet) iDigBio External Advisory Board <u>neil.cobb@nau.edu</u>



Neil is based at Northern Arizona University in Flagstaff.

A biologist by training, his teaching and research interests include arthropod biodiversity, ecological gradients, climate change, and land use change. Neil is a coordinator for the Symbiota Working Group. <u>ORCID 0000-0002-6155-9444</u>

Kimberly Cook Research Fellow Paleoniches; Fossil Marine Invertebrates (EPICC) <u>kijucook@iu.edu</u>

Kimberly is a research fellow in the Indiana University Paleontology Collections and is pursuing



a master's degree in library science at IU. Kimberly has a special interest in legacy collections and the standardization of biological terminology to enhance scientific understanding of biodiversity, past, present, and future. Rebecca Crowe Herbarium Manager California Phenology (CAP) <u>rcrowe@uci.edu</u>



Rebecca is the Nursery Manager at the UC, Irvine Arboretum .She manages the Arboretum's living plant collection and Herbarium (IRVC). Her research interests include dispersal ecology in chaparral, fire ecology, and the Flora of Orange County. Twitter @recrowe

Michael Denslow Project Manager Southeast Regional Network of Expertise and Collections (SERNEC) <u>michael.denslow@gmail.com</u>

In addition to Michael's SERNEC activities, he is a part of the research team on the Notes from Nature project.

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# Tobi Elie

Collaborator

Smithsonian Institution, Center for Conservation and Education Gabon Biodiversity Program <u>elietobi@gmail.com</u>

Tobie has been working with the Smithsonian's Gabon Biodiversity Program since 2001. He manages an



important zoological reference collection in Africa (123,000 specimens of plants, mammals, birds, fish, reptiles, amphibians, and arthropods). He also leads environmental education and awareness programs with schools and companies.

#### Edward Davis Co-Principal Investigator Fossil Marine Invertebrates edavis@uoregon.edu

Edward is the curator of fossil collections for the University of Oregon Museum of Natural and Cultural History, as well as an



Assistant Professor of Earth Sciences. His research focuses on the evolution of traits in ungulate mammals as well as the evolution of geographic ranges of mammals in response to changing environments. <u>ORCID 0000-0002-0918-5852</u>



Joshua Der Principal Investigator California Phenology jder@fullerton.edu

Joshua is an Assistant Professor of Population Genetics and Evolutionary Genomics and a Curator in the MacFadden

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Shari is based at the Florida Museum of Natural History in

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Diane Erwin Co-PI, Pteridological Collections Consortium (PCC) PI, Berkeley Fossil Insect (FIC) PEN <u>dmerwin@berkeley.edu</u>

Diane is based at the UC Museum of Paleontology. She manages the paleobotany collection, the UCMP's labs and is Senior Editor of the museum's journal PaleoBios. Her main research focus is on Cenozoic plants of western North America.



Amanda Fisher Principal Investigator California Phenology (CAP) <u>Amanda.Fisher@csulb.edu</u>

Amanda is an Assistant Professor of Botany and Curator of the Herbarium (LOB) at California State



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Adania Flemming Research Assistant/Educator iDigBio <u>aflemming@ufl.edu</u>

A former iDigBio graduate student, Adania recently received her master's in biology at UF. She organizes and participates in events to promote community

engagement, use of online data and educational resources, and retention of diverse populations in the sciences. Adania is a member of the iDigBio Education, Outreach, and Diversity Working Group. Twitter @adaniascience





Mary Ann Feist Collaborator Pteridological Collections Consortium (PCC) <u>mfeist@wisc.edu</u>

Mary Ann is Curator of the Wisconsin State Herbarium at the University of Wisconsin,

Madison. Her research interests include the systematics of Apiaceae of the western USA and the flora of Wisconsin.

Kirsten Fisher Principal Investigator California Phenology (CAP) kfisher2@calstatela.edu

Kirsten is an Associate Professor in the Department of Biological Sciences at Cal State Los Angeles. In



addition to teaching and doing research on desert bryophytes, she also serves as the curator for the CSLA Herbarium, which holds approximately 33,000 collections of vascular plants, primarily from Southern California and Northern Mexico.



#### Natasza Fontaine Graduate Student iDigBio nf18f@my.fsu.edu

Natasza recently joined iDigBio and is based at Florida State University in the Mast lab. She

spent 2.5 years as a digitizer on the World Flora Online project at the New York Botanical Garden. Natasza's interests include using digital specimens to facilitate effective conservation strategies, understanding plant diversity and distribution, and engaging citizen scientist in stewardship. Twitter @haalimifolia

# Linda Ford

iDigBio External Advisory Board Biocollections Network (BcoN) Advisory Board Collaborator, SCAN & oVert TCNs Iford@oeb.harvard.edu



Linda is Director of Collections

Operations for the Museum of Comparative Zoology at Harvard. She oversees museum-wide projects and initiatives that encompass research collections, the museum-wide database, and IT infrastructure.

Richard Garand Portal Developer iDigBio rjgarand@gmail.com



Richard is part of the Advanced Computing and Information Systems (ACIS) Laboratory at the University of Florida.

He is a member of the iDigBio Cyberinfrastructure Implementation Team with a focus on making the iDigBio portal awesome. Before coming to ACIS, Richard worked as a data analyst, web developer, and trainer.



Robert Gropp Principal Investigator, Biodiversity Collections Network (BcoN) AIBS and NSC Alliance rgropp@aibs.org

As PI of the BCoN Research

Coordination Network (RCN) grant, Rob is interested in how the community can sustainably implement the strategic plan for a Network Integrated Biocollections Alliance, and to help identify next generation uses for the digitized specimen and associated data arising from ADBC and other initiatives. José A. Fortes Co-Principal Investigator; Cyberinfrastructure iDigBio <u>fortes@ufl.edu</u>

José supervises the development and operation of iDigBio cyberinfrastructure. He is also the Director of the ACIS laboratory at UF. His research interests include the design of efficient cyberinfrastructure for biodiversity informatics. ORCID 0000-0001-8870-5205



Michelle Gaynor Graduate Student iDigBio <u>michellegaynor@ufl.edu</u>

Michelle is Ph.D. student at the University of Florida with Pam and Doug Soltis. She interested in polyploidy evolution in angiosperms.

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Joyce Gross Portal Manager Pteridological Collections Consortium (PCC) joyceg@berkeley.edu

Joyce is a programmer for the UC Berkeley Natural History Museums. She supports and

develops databases including the Essig Museum and UC Museum of Paleontology specimen databases, CalPhotos, and AmphibiaWeb. Joyce also manages the BNHM IPT (including formatting/loading data from various Berkeley Natural History museums) and provides support for numerous BNHM web sites. C. Matt Guilliams Principal Investigator California Phenology (CAP) mguilliams@sbbg.org

Matt is a plant systematist and herbarium curator at the Santa Barbara Botanic Garden. ORCID 0000-0003-3919-8432 Twitter **@juniper jump** 



**Colleen Hatfield** Principle Investigator California Phenology (CAP) chatfield@csuchico.edu

Colleen is Director of the Chico State Herbarium. As Director, Colleen works closely

with Curator Lawrence Janeway and an amazing volunteer group (The Friends of the Chico State Herbarium) to build a strong regional herbarium that represents the rich botanical diversity of northern California and beyond.



**Donald Hobern** Member Board

iDigBio External Advisory dhobern@gbif.org

Donald is currently the Executive Secretary of the **Global Biodiversity Information** 

Facility (GBIF), headquartered in Copenhagen. In this role he is responsible for coordinating the activities of a global network for sharing biodiversity data including 54 countries and many international organisations. His career spans over thirty years in software development and biodiversity informatics. ORCID 0000-0001-6492-4016 Twitter @dhobern

Hamish Holewa Acting Director and Chief Operating Officer Atlas of Living Australia, CSIRO hamish.holewa@csiro.au

Hamish specialises in international large scale, multi-institutional data integration and machine learning eResearch infrastructure program. He

has successfully led many national collaborative projects in areas such as health, open data, ecosciences and climate change, and cloud computing.



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# **James Hogue Co-Principal Investigator** California Phenology (CAP) james.n.hogue@csun.edu

James is an entomologist who grew up and continues to work in Los Angeles, California. His research interests are in the systematics and natural



history of flies (Tipulidae and Syrphidae), cultural entomology, and aquatic ecology. James manages several collections (herbarium, terrestrial vertebrates, insects) at California State University Northridge.

### Patricia Holroyd Co-PI, Fossil Marine Invertebrates (EPICC) <u>pholroyd@berkeley.edu</u>

Pat is based at the University of California Museum of Paleontology, where she oversees digital assets



and the vertebrate paleontology collections. Her research encompasses both systematics and the use of digitized resources to answer questions about the mechanisms underlying extinction, diversification, and climate change.

Nigel Hughes Co- Principal Investigator Enhancing the EPICC TCN with Collections at the University of California – Riverside PEN <u>nigel.hughes@ucr.edu</u>

Nigel is an invertebrate paleontologist working mainly with trilobites from both a paleobiological and a geological perspective. He has been a faculty member at UCR for 20+ years, but had a museum background before that.



Bonnie Isaac

Co-Principal Investigator Connecting Rust Belt dynamics to the Mid-Atlantic Megalopolis Project utilizing the Carnegie Museum Herbarium PEN isaacb@carnegieMNH.org



Bonnie is the Collection Manager of the Herbarium at Carnegie Museum of Natural History in Pittsburgh, PA. Bonnie has been working in the CM herbarium for 30 years. Shusheng Hu Principal Investigator Pteridological Collections Consortium (PCC) <u>shusheng.hu@yale.edu</u>

Shusheng is the collections manager of the Division of



Paleobotany, Yale Peabody Museum. Shusheng has led several digitization projects at the Peabody, including the Compendium Index of North American Mesozoic and Cenozoic Type Fossil Plants, National Cleared Leaf Collection, and Wieland Cycadeoid Thin Section Collection.

Jiri Hulcr Collaborator University of Florida <u>hulcr@ufl.edu</u>



Jiri is a forest entomologist at the University of Florida. He runs

the world's largest collection of cryopreserved bark and ambrosia beetles (>160,000 entries). His lab focuses on the systematics, symbioses and invasions of wood borers, and their role in forest health and global change. <u>ORCID 0000-0002-8706-4618</u>

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David Jennings Project Manager, iDigBio Biocollections Network (BcoN) Advisory Board iDigBio Node Manager; GBIF Nodes Regional Rep - North America djennings@flmnh.ufl.edu



David Jennings works for the Florida Museum at the University of Florida. David oversees daily iDigBio operations including progress tracking, budget management, risk management, activity coordination/integration, and preparation of documentation and reports. David is a registered Professional Engineer in the State of Florida.



Andrew Johnson Collaborator University of Florida <u>ajj@ufl.edu</u>

Andrew is a postdoctoral researcher at the Forest Entomology lab at UF working on the systematics, taxonomy, and

diagnosis of bark and ambrosia beetles. He manages the world's largest cryo-preserved collection of those beetles, and is developing a global network of researchers and extension agents to manage forest pests.

Gregory Jongsma Graduate Student University of Florida gregor.jongsma@gmail.com



Gregory is a UF graduate student in Biology. His research is focused on Central African frog evolution.

Laurel Kaminsky Archivist Lichens, Bryophytes and Climate Change (LBCC) Lepidoptera of North America Network (LepNet) <u>barrykaminsky@ufl.edu</u>

Laurel is an archivist at the Florida Museum of Natural History. She has worked with the lichen and microfungi TCNs and will join LepNet in October

2018. She is broadly interested in lichen systematics and education and outreach with natural history collections.



Doug Jones Director Florida Museum of Natural History <u>dsjones@flmnh.ufl.edu</u>

Doug is Director of the Florida Museum of Natural History, curator of paleontology, and a professor in

the Departments of Biology and Geological Sciences at UF. His research interests include marine mollusks as indicators of past and present environmental conditions, particularly from the Panamanian region, to address questions of climate change and evolution. Twitter <u>@DougDJones</u>

Kari L. Jordan Director of Assessment and Community Equity The Carpentries <u>kariljordan@carpentries.org</u>



Kari earned B.S. and M.S. degrees in

Mechanical Engineering from Michigan Technological University, and Master's (Education) and PhD in Engineering Education from The Ohio State University. Her doctoral research explored self-efficacy of underrepresented engineering students. After completing a post-doc at Embry-Riddle Aeronautical University, she was hired to lead Data Carpentry's assessment efforts. Twitter @drkariljordan



Amy Kasameyer Digitization Manager Microfungi Collections Consortium (MiCC) Endless Forms (EF) Pteridological Collections Consortium (PCC) <u>akasameyer@berkeley.edu</u>

Amy is the Archivist at the University and Jepson Herbaria at UC Berkeley. She is responsible for the archival collections and manages the digitization lab.

# Mary Klein iDigBio External Advisory Board Board of Directors, AIBS <u>mklein@bkmlk.com</u>

Mary served as the President and CEO of NatureServe from 2006-2016, where she led



an international network of more than 1,000 conservation professionals who provide the scientific basis for effective conservation action, responding to more than six million information inquiries each year. Jason Knouft iDigBio External Advisory Board jason.knouft@slu.edu

Jason is a Professor in the Department of Biology at Saint Louis University. Research interests include investigation of the impacts of human activities on freshwater systems.





Erica Krimmel Project Manager Fossil Insect Collaborative (FIC) Marine Fossil Invertebrates(EPICC) <u>ekrimmel@nhm.org</u>

Erica is an information scientist

working in the Invertebrate Paleontology collection at the Natural History Museum of Los Angeles County. She works closely with the scientific and technology staff at NHMLA to maximize the accessibility and usefulness of specimen data to both research and education.

Daniel Le Digital Media Specialist Endless Forms Dle@fieldmuseum.org

Daniel is the Botany Digital Media Specialist for the Field Museum. His background is in photography and his roles include managing the photo imaging labs as well as managing the archiving of digital assets for the Field Museum's Botany Collection.



Margaret Landis Collaborator Pteridological Collections Consortium (PCC) <u>paleocatstar@ou.edu</u>

Margaret is the Paleobotany, Micropaleontology, & Mineralogy Collection Manager at Sam Noble Museum at the University of Oklahoma. As they digitize, she



is leading the re-structuring/ designing of the databases to better manage the specimens (e.g., utilizing GIS/computer mapping to locate historical fossil localities based on geographical and geological locality information].

José Leal Collaborator jleal@shellmuseum.org

José is the Science Director and Curator at the Bailey-Matthews National Shell Museum. He holds honorary faculty positions at the University of Miami and Florida Gulf Coast University, where he is an affiliate member of the Coastal Watershed Institute. He is also

a past president of the American Malacological Society and the editor-in-chief of *The Nautilus*. ORCID 0000-0002-3786-0368



Jeri Ledbetter Program Manager Symbiota Collections of Arthropods Network (SCAN) jeri@springstewardship.org

Jeri holds a Master's in Geographic Information

Systems from Pennsylvania State University. With many years of experience with relational database design development, she is the primary developer of Springs Online (springsdata.org).



Kevin Love Biodiversity Informatics Manager iDigBio <u>klove@flmnh.ufl.edu</u>

Kevin's daily activities are devoted to getting mobilized data into the queue for ingestion by the portal. He is the first point of contact for anyone



looking for information about sharing their collections data with iDigBio as well as being the point person for TCN issues and concerns. Kevin also manages iDigBio's IPT resource.

Emily Magnaghi Project Manager Endless Forms TCN <u>emagnaghi@calacademy.org</u>



Emily recently returned to the California Academy of Sciences in San Francisco, after seven

years away, to resume her curatorial duties. Emily is responsible for herbarium maintenance, data entry, volunteer management, tours and outreach, and soon will be managing their part of the Endless Forms digitization grant. Bruce Lieberman Lead Principal Investigator Paleoniches TCN Cretaceous World TCN <u>blieber@ku.edu</u>



Bruce is Senior Curator in the Biodiversity Institute

and Professor in the Department of Ecology & Evolutionary Biology at the University of Kansas. He is a paleontologist interested in biogeography, macroevolution, and digitization. Twitter <u>@trilolight</u>

Bruce MacFadden Co-Principal Investigator; Education & Outreach iDigBio <u>bmacfadd@ufl.edu</u>



Bruce is Distinguished Professor and Curator of Vertebrate

Paleontology at the Florida Museum of Natural History. His research interests include vertebrate paleontology (fossil mammals). In July, he also became the Director of the Thompson Institute for Earth Systems at the University of Florida. In 2009-2010 he was a Program Officer in EHR (Education and Human Resources) at NSF.

Lucas Majure Collaborator Southeast Regional Network of Expertise and Collections (SERNEC) TCN Imajure@floridamuseum.ufl.edu

Lucas is a plant systematist and curator of the herbarium (FLAS) at the Florida Museum of Natural

History. He focuses principally on the phylogenetics and systematics of Cactaceae, Melastomataceae and certain Poaceae. Much of his work is carried out in the Greater Antilles, especially Cuba and Hispaniola.





Elizabeth Martin Collaborator U.S. Geological Survey <u>elizabeth\_martin@usgs.gov</u>

Elizabeth is a biologist working at the U.S. Geological Survey on Biodiversity Information

Serving Our Nation (BISON) and other biodiversity and ecosystems data and information activities. She is also a graduate student at the University of Florida conducting research on use of biodiversity information systems by professionals.

Susan Mazer Principal Investigator California Phenology (CAP) <u>sjmazer@ucsb.edu</u>

Susan is an evolutionary ecologist interested in the process and outcome of natural selection on life history and reproductive traits within and among

wild plant species. Her research aims to detect the mechanisms by which plants adapt to the ecological risks and opportunities that they encounter, and to explore the genetic or ecological constraints that may limit the rate or degree of adaptation.



Anthony Melton Graduate Student iDigBio aemelton@ufl.edu

Anthony is a PhD candidate in the Soltis lab at the University of Florida. He is interested in niche evolution and other things evolutionary macroecology.



Austin Mast Senior Personnel iDigBio mast@bio.fsu.edu

Austin is a Professor in the Department of Biological



Science and Director of the Robert K. Godfrey Herbarium at Florida State University. His research focuses on plant evolution, biodiversity informatics, and citizen science. Twitter @austin\_mast

Lindsie McCabe Graduate Student Symbiota Collections of Arthropods Network (SCAN) Lepidoptera of North America Network (LepNet) Ima243@nau.edu



Lindsie McCabe is a third year PhD student in the department of Biological Science at Northern Arizona University, working under Dr. Neil Cobb. Lindsie's research includes understanding how insect pollinator communities change along an elevation gradient and how these communities might be affected by climate change. Twitter @Lindsie McCabe

Andrew Miller Lead Principal Investigator Microfungi Collections Consortium (MiCC) <u>amiller7@illinois.edu</u>



Andy is based at the University of Illinois Urbana-Champaign where he serves as the Mycologist and Director of the Fungarium/ Herbarium. His research focuses on the systematics, biodiversity, and evolution of fungi in temperate and tropical areas. Joe Miller Program Director National Science Foundation (NSF) joe@acaciamulga.net

Joe is an NSF Program Director in the Office of

International Science and Engineering. He is also a plant molecular systematist and interested in phylogenetic visualization and data integration. Twitter @BioDiv Intel



Jamie Minnaert-Grote Co-Principal Investigator Endless Forms (EF) <u>minnaert@illinois.edu</u>

Jamie is the Herbarium Collections Manager at the University of Illinois at Urbana-Champaign. She works with both the Illinois Natural History Survey and the University Plant Biology and Fungal Collections.



or

Andre Naranjo Graduate Student iDigBio aanaranjo@ufl.edu



Andre is a former iDigBio research assistant under Pam Soltis. Andre studies the phylogenetics and systematics of the SE Scrub Mint Clade, and is using iDigBio locality data to build ecological niche models of species of interest.



Jess Miller-Camp PI/Project Manager Enhancing the EPICC TCN with collections at the University of California – Riverside PEN jessmc@ucr.edu

Jess currently runs the

University of California, Riverside's Earth Sciences Museum. She is a vertebrate paleontologist, studying alligator evolution and dicynodont morphology and taxonomy. In November, Jess will begin running Indiana University Bloomington's paleontology collections.



Zack Murrell Lead Principal Investigator Southeast Regional Network of Expertise and Collections (SERNEC) <u>murrellze@appstate.edu</u>

Zack is a Professor and

Chairperson in the Department of Biology at Appalachian State University, a plant systematist and a herbarium curator. Over the past 19 years Murrell has been helping organize the herbaria of the Southeast to provide support and develop collaborations among the 233 collections in the region. Twitter @zackmurrell

Thomas Nash Co - Principal Investigator Lichens, Bryophytes and Climate Change (LBCC) <u>tom.nash@asu.edu</u>

Tom is now based at the University of Wisconsin in Madison after working at Arizona State University for 39 years. A botanist by training, his research interests include lichenology, ecology, and data

bases. Tom supervises the Lichen Herbarium at the University of Wisconsin.



#### Gavin Naylor Collaborator oVert: Open Exploration of Vertebrate Diversity in 3D

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Gavin is Director of the Florida Program for Shark Research at the Florida Museum of Natural History. He has a background in molecular phylogenetics and works with genomic data and comparative anatomy of elasmobranchs.



### **Chris Neefus**

Lead PI; Macroalgal Collections Consortium (MHC) PI; New England Vascular Plants (NEVP) Collaborator; Pteridological Collections Consortium <u>chris.neefus@unh.edu</u>

Chris is a faculty member in the Department of Biological Sciences at the University of New

Hampshire and director of the Albion Hodgdon Herbarium. Research interests include algal taxonomy, ecology, biogeography, and integrated multitrophic aquaculture.



Christine Niezgoda PI, Great Lakes Invasives (GLI) PI, Endless Forms (EF) Field Museum cniezgoda@fieldmuseum.org

Christine is the Collections Manager at the Field Museum, Chicago. She is responsible for managing



the vascular plant collections for the 5th largest herbarium in the US. She has been involved in a variety of digitization projects that have resulted in over 1/2 million digital records with support from private foundations and governmental agencies.

## Mare Nazaire Co-Principal Investigator Endless Forms (EF) <u>mnazaire@rsabg.org</u>

Mare is the Administrative Curator of the Herbarium at Rancho Santa Ana Botanic



Garden and is responsible for overall management of herbarium operations. Mare is Taxon Editor for Flora of North America and Treasurer for the Society of Herbarium Curators. Her current research focuses on systematics and biogeography of Mertensia (Boraginaceae).



Gil Nelson Digitization Specialist iDigBio gnelson@bio.fsu.edu

Gil is a member of the iDigBio Steering and Executive Committees and several

working groups. Trained as a botanist, Gil focuses on digitization research, implementation, and the research use of digital data. Gil is research faculty at Florida State University.

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Katherine Noren Curatorial Assistant/Digitization Manager Microfungi Collections Consortium (MiCC) Great Lakes Invasives (GLI) nore0102@umn.edu



Katherine is based at the Bell Museum Herbarium on the St. Paul campus of the University of Minnesota. Her team has digitized 60K bryophyte records and 50K microfungi records. Her other duties include data upload and maintenance on their portal--bellatlas. umn.edu. Cesaer Nufio Program Officer National Science Foundation <u>cnufio@nsf.gov</u>



Cesar is an NSF Program Officer in the Populations and Community Ecology Cluster within the

Directorate of Environmental Biology and works with the ADBC program. Nufio's work uses museum collections and long-term survey records to examine the effects of climate change on grasshopper communities, species, and populations. Matthew Pace Lead Principal Investigator Endless Forms (EF) <u>mpace@nybg.org</u>



Matthew is the Assistant Curator of The New York Botanical Garden Herbarium, where he manages, curates, and maintains the overall collection. His research focuses on the systematics of Orchidaceae.

Larry Page Lead Principal Investigator iDigBio <u>Ipage1@ufl.edu</u>



Larry is Curator of Fishes at the Florida Museum of Natural History and Adjunct Professor of Biology

at the University of Florida in Gainesville. His primary research interests are the systematics, ecology, and conservation of freshwater organisms, and in the use of biodiversity collections data in research. <u>ORCID 0000-0002-8823-0729</u> Mikaeel Pasandideh Msc student Tarbiat Modares University <u>mikaeel.pasandideh@modares.</u> <u>ac.ir</u>



Mikaeel is the founder and

manager of the Iranian braconidae Vre project. His reseach interests include microtomography, digitizing of insect specimens, and developing 3d cybertypes. He established the first digitizing group in Iran, and is collaborating with the Atlas of Living Australia as volunteer.

Deborah Paul Digitization and Technology Specialist iDigBio dpaul@fsu.edu



Debbie is based at Florida State

University in Tallahassee, Florida. She is involved in all aspects of iDigBio, but focuses primarily on the professional development of the collections and research communities and building national and international collaborations related to digitization and research use of the digitized data. ORCID 0000-0003-2639-7520 Twitter <u>@idbdeb</u> Katelin "Katie" Pearson Project Manager California Phenology (CAP) <u>kdpearso@calpoly.edu</u>

Katelin is a botanist, herbarium curator, and project manager of the California Phenology (CAP) TCN at California Polytechnic University, San Luis Obispo.



She is a former iDigBio graduate research assistant at Florida State University in the lab of Austin Mast.

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# John Pfeiffer Graduate Student iDigBio jpfeiffer@ufl.edu

John is a PhD candidate in Larry Page's lab. He is interested in freshwater biodiversity and evolution.



Molly Phillips Education, Outreach, and Diversity Coordinator iDigBio mphillips@flmnh.ufl.edu

Trained as a biologist with years of collections experience, Molly



now implements the EOD activities of iDigBio and facilitates communication and coordination among the TCNs in order to promote, encourage, develop, and implement relevant EOD and related Broader Impact activities.



Jorrit Poelen Collaborator iDigBio jhpoelen@xs4all.nl

Jorrit is an independent software developer based in Oakland, CA.

He is interested in re-using/building frugal tools to help better integrate our wealth of biodiversity knowledge. He leads Global Biotic Interactions (https://globalbioticinteractions.org) and helped start GUODA (http://guoda.bio), a collaboration involving folks from iDigBio, Encyclopedia of Life, Kew Botanical Gardens and the Ronin Institute.

### <u>ORCID 0000-0003-3138-4118</u>



Heather Prestridge Co-Principal Investigator oVert: Open Exploration of Vertebrate Diversity in 3D <u>hlprestridge@tamu.edu</u>

Heather is Curator at the Biodiversity Research and

Teaching Collections (BRTC), Department of Wildlife and Fisheries at Texas A&M University. Her primary role at the BRTC is to curate and make accessible the collection of vertebrates. Daily, she manages large electronic databases of specimen information and facilitates integration of these data into web sharing initiatives (VertNET, iDigBio, GBIF) which provide public access to the specimens at the BRTC.

#### Jeanette Pirlo Graduate Student iDigBio jpirlo@flmnh.ufl.edu

Jeanette is a second year PhD student at UF, studying vertebrate paleontology. She is interested in shark species distribution and changes across time due

to environmental fluctuations, while applying that to modern conservation. She is working on broadening participation in ADBC by exploring how minority-serving institutions use and contribute to the digitization effort.



Muriel Poston Director, Division of Biological Infrastructure NSF

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Muriel spent over twenty years as a professor in the Department of Biology/Botany at Howard, where she focused on undergraduate education, served



as Curator of the University Herbarium, and developed the Environmental Science program. She is the former Vice President for Academic Affairs/ Dean of Faculty at Pitzer College where she is a Professor in Environmental Analysis.



Anupaman Priyadarshini Digitization Technician; LepNet <u>apriyadarshini@floridamuseum.</u> <u>ufl.edu</u>

Anupaman is a digitizing technician at the McGuire

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#### Zachary Randall

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Zach works for the Florida Museum specializing in specimen imaging and freshwater fish systematics. He is a scanning technician for the oVert project developing workflows and best practices for scanning fishes.

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**Richard Rabeler** 

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Rich is Senior Collections Manager/Research



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David Reed Florida Museum <u>dlreed@ufl.edu</u>



David is the head of Research and Collections and Curator of Mammals at the Florida Museum of Natural History at the University

of Florida and an Associate Provost at UF. His research interests include the phylogenetics and population genetics of mammals and their parasites. His duties include research and curation, but also overseeing the research enterprise at the Florida Museum as well as the health and well-being of its collections.

Nicholas Rejack System Administrator/ Programmer iDigBio <u>nrejack@acis.ufl.edu</u>



Nicholas is a developer located in the University of Florida's

Advanced Computing and Information Systems (ACIS) laboratory which develops and maintains the iDigBio site and data store. His research interests include data quality and data reuse.

# Greg Riccardi

Co-Principal Investigator; Digitization and Workforce Training iDigBio griccardi@fsu.edu



Greg is a computer scientist who has been working on scientific informatics issues for many years. He is the PI for the Florida State University portion of the iDigBio project which is responsible for digitization and workforce training for iDigBio.

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**Participant Bios** 

**Nelson Rios** Collaborator Southeast Regional Network of Expertise and Collections SERNEC nelson.rios@yale.edu



Nelson was recently hired as head of Biodiversity Informatics and

Data Science for the Yale Peabody Museum of Natural History. He is actively engaged in methods for automated georeferencing, 3-dimensional imaging and reconstructions of museum objects, and data annotation networks.

Laura Rocha Prado **Research Associate** Great Lakes Invasives (GLI) rochaprado@wisc.edu

Laura is a leaf beetle taxonomist who loves to code. She is currently working in Biodiversity Bioinformatics as an Information Specialist at the



University of Wisconsin-Madison, building a Symbiota portal that will bring together specimens belonging to five different natural history museums on campus.

**Roland Roberts Program Officer National Science Foundation** rolrober@nsf.gov

Roland manages the ADBC/iDigBio and the National

Ecological Observatory Network (NEON) operations awards. Previously, he managed the Collections in Support of Biological Research (CSBR) and Advancing Digitization of Biodiversity Collections (ADBC) programs.



Yarency Rodriguez Coordinator Macroalgal Herbarium Consortium (MHC) yrodriguez@fieldmuseum.org

Yarency is a collections assistant at the Field Museum of Natural History in Chicago, Illinois. She helps organize and maintain the bryophytes

and ferns collections. They are currently digitizing and databasing the collections using various platforms, one of them being the Bryophyte Portal.



**Carl Rothfels** Lead Principal Investigator Pteridological Collections Consortium (PCC) crothfels@berkeley.edu

Carl is an assistant professor and faculty curator at UC Berkeley; his research focuses on the phylogenetics of ferns and lycophytes and he has a particular interest in polyploidy, hybridization, and the timescale of plant evolution. ORCID 0000-0002-6605-1770





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John is based at the Marie Selby Botanical Garden in Sarasota, Florida where he assists in orchid

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Andrew Sanders Sr. Museum Scientist/Herbarium Curator California Phenology (CAP) TCN <u>Andrew.sanders@ucr.edu</u>

Andy is a museum scientist and curator at the

University of California-Riverside Herbarium (UCR). He specializes in the plants of southern California.





Katja Seltmann Co-Principal Investigator California Phenology (CAP) <u>enicospilus@gmail.com</u>

Katja is a Director of the Cheadle Center for Biodiversity and Ecological Restoration at the

University of California, Santa Barbara where she directs three main research and programmatic areas — natural history collections management, environmental education, and ecological restoration. Prior to Santa Barbara, Katja was part of the Tri-Trophic Network at the American Museum of Natural History.

Michael Simpson Principal Investigator California Phenology (CAP) <u>msimpson@sdsu.edu</u>

Michael is a Professor Emeritus at the Department of Biology, San Diego State University, San Diego, CA, USA. Michael specializes in plant systematics and manages the SDSU Herbarium. He currently actively



studies subtribe Amsinckiinae (Boraginaceae), American amphitropical disjunctions, and plants of Chile. ORCID 0000-0002-6197-2132 Lauren Scheinberg Collaborator oVert: Open Exploration of Vertebrate Diversity in 3D <u>Ischeinberg@calacademy.org</u>

Lauren is the Collection Manager of Herpetology at the California Academy of Sciences.



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Emily is a plant systematist in the Biology Department at UF. Her research focuses on understanding the evolution and ecology of land

plants, particularly ferns and lycophytes. Projects in her lab include work on phylogenetics biogeography, diversification, and physiology of ferns. <u>ORCID 0000-0002-6496-5536</u> Twitter <u>@ebsessa</u>





Randy Singer Graduate Student iDigBio <u>rsinger@flmnh.ufl.edu</u>

Randy is a graduate student and iDigBio CORE Team member based at

the University of Florida. His graduate work explores biodiversity collections use and sustainability through the analysis of collections data and queries of its users. Additionally, Randy is an ichthyologist by training and works on systematics and biogeography of Southeast Asian freshwater and deep-sea marine fishes.

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Cynthia Skema Lead Principal Investigator Mid-Atlantic Megalopolis (MAM) <u>cskema@upenn.edu</u>

Cynthia Skema is a Research Botanist at the Morris Arboretum of University of Pennsylvania,

where she conducts research in plant evolution and systematics, and teaches Field Botany and Understanding Plants.

Jim Solomon Principal Investigator, Endless Forms (EF) jim.solomon@mobot.org

Jim is responsible for the management of activities related to the storage, care, and access to the Garden's 7 million specimen herbarium and its associated data by staff, students, visiting

researchers, and outside users. This includes developing policies for collections management, implementing best practices to serve an international user community, and providing for the long-term care of the collection.



Norine Spears Community Development Specify Collections Consortium <u>norinespears@gmail.com</u>



Norine has been involved with the Specify Software project for the past 10 years, taking on various roles including designing the UI, writing and filming documentation, marketing creation, transition support, and now community development. Annika Smith Graduate Student iDigBio <u>annikals@ufl.edu</u>

Annika is a graduate student at the University of

Florida in the Soltis Lab and a research assistant for iDigBio. Her research focuses on the evolution of floral morphology.



Pamela Soltis Co-Principal Investigator; Research iDigBio psoltis@flmnh.ufl.edu

Pam Soltis, Florida Museum of Natural History at the University of Florida, is iDigBio Director of Research. She is a plant biologist interested in

the origins and relationships of species of flowering plants. She is particularly interested in how to harness the power of natural history specimens for integrative research.

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Larry is the Curator of Ecology at the Museum of Northern Arizona,

and the co-founder of the Springs Stewardship Institute. He served as the ecologist for Grand Canyon National Park from 1989 to 1994. He was the editor for Red Lake Books, has served on many ecological councils in Arizona, conducted research on biogeography, springs ecology, and published extensively in peer-reviewed journals. Lena Struwe Principal Investigator; The Mid-Atlantic Megalopolis (MAM) Collaborator; Macroalgal Collections Consortium (MHC)

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Lena is a botanist in the fields

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Leif is a professor in the Department of Geosciences at

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Dan is part of the ACIS Laboratory at the University of Florida. He is a member of the iDigBio Cyberinfrastructure implementation team with a focus on data ingestion. Twitter @thatlinuxbox



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Michael is a curator at The Pringle Herbarium (VT) at The University of Vermont. He works on systematics of tropical ferns and lycophytes.

Jordan Teisher Collection Manager The Mid-Atlantic Megalopolis TCN <u>jkteisher@drexel.edu</u>

Jordan is the Botany Collection Manager for the Academy of Natural Sciences of Drexel University in Philadelphia, Pennsylvania. In that capacity, he manages a collection of approximately 1.4 million



specimens of vascular and nonvascular plants, algae, fungi, lichens, slime molds, and fossils. He also does a bit of research, primarily on the systematics of the grass family, Poaceae.

#### Barbara Thiers

Lead PI; Macrofungi Collections Consortium (MaCC) Co-PI; Endless Forms (EF); Collaborator; Mid-Atlantic Megalopolis (MAM);iDigBio External Advisory Board, BcoN Advisory Board <u>bthiers@nybg.org</u>

Barbara is Vice President and Patricia K. Holmgren Director of the New York Botanical Garden.

She is a specialist in bryophytes (Hepaticae) and in collections management. Barbara will be President of the Society for the Preservation of Natural History collections from 2018-2020. ORCID 0000-0002-8613-7133



Cody Thompson Senior Personnel oVert:Open Exploration of Vertebrate Diversity in 3D <u>cwthomp@umich.edu</u>



Cody serves as the Mammal Collections Manager and Assistant

Research Scientist at the University of Michigan Museum of Zoology. He enjoys the challenge of integrating his experience working in museum collections with his own research program to continue to grow the Mammal Division. Twitter @codythompson51

Alejandra Vasco Collaborator Pteridological Collections Consortium (PCC) <u>avasco@brit.org</u>

Alejandra's current research is mostly on systematics and evolution of ferns, with broad implications for their taxonomy and their

morphological and developmental evolution. Currently, she is a researcher at the Botanical Research Institute of Texas in Fort Worth and the fern curator of the BRIT herbarium. Twitter <u>@avascog</u>



Katherine Waselkov Principal Investigator California Phenology (CAP) kwaselkov@csufresno.edu

Katherine is an assistant professor in the Biology Department at California State University, Fresno. Her responsibilities include teaching Plant Taxonomy and Plant Anatomy, conducting student-based research



on agricultural weed evolution in the genus Amaranthus, and curating and expanding the Fresno State Herbarium (FSC). <u>ORCID 0000-0001-8521-3694</u> Twitter <u>@KWaselkov</u> Erin Tripp Principal Investigator Plant Niches of the Southern Rockies (SoRo) <u>erin.tripp@colorado.edu</u>

Erin is Curator of Botany at the University of Colorado

Museum of Natural History. Her research contributes to three core areas: systematics & phylogenomics, phenotypic evolution, and biogeography & diversification.





Matt von Konrat Co-PI, Lichen and Bryophytes (LBCC) Collaborator; Macroalgal Herbarium Consortium (MHC) PI; Pteridological Collections Consortium (PCC) mkonrat@fieldmuseum.org

Matt is Head of the Botanical Collections at Field Museum as well as Adjunct Curator & McCarter Collections Manager (Bryophytes & Pteridophytes). His core responsibilities include overseeing digitization projects. Matt has strong interests in education and public outreach. Twitter @microplants

Kim Watson Principal Investigator; Pteridological Collections Consortium (PCC) Co-Principal Investigation; The Mid-Atlantic Megalopolis (MAM) kwatson@nybg.org



Kim is Herbarium Digital Asset Manager at The New York Botanical Garden where she manages NYBG's Digital Imaging Center, including training and supervising specimen digitization staff, installing and maintaining imaging equipment, and postprocessing and archiving the resulting  $\pm$  600,000 image files generated annually. Tim Whitfield Senior Personnel Plant Niches of the Southern Rockies (SoRo) <u>timothy whitfeld@brown.edu</u>



Tim is the Collections Manager of the Brown University Herbarium

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Ya Yang Collaborator Endless Forms (EF) <u>yangya@umn.edu</u>

Ya is currently an assistant professor and herbarium curator at the University of Minnesota, Twin Cities. Her research interests include systematics and evolution of Caryophyllales and Euphorbia. Ya's job responsibilities

include research, teaching, herbarium curation, and outreach.



Jenn Yost Lead Principal Investigator California Phenology (CAP) <u>jyost@calpoly.edu</u>

Jenn is a botanist and director of the Hoover Herbarium and faculty member in the Biology Department at Cal Poly, San Luis Obispo. The Hoover Herbarium contains around 80,000 specimens



from mostly Central California and is used by over 1,000 undergraduates each year. Jenn's research focuses on the ecology and evolution of the California flora. Paul Wilson Principal Investigator California Phenology (CAP) <u>kwaselkov@csufresno.edu</u>

Paul is Professor of Biology in the area of Ecology

and Evolution at California State University Northridge. He studies floral evolution and comparisons of moss niches and works on the California Moss eFlora.



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George is the curator of the TEX-LL herbaria at the Billie L. Turner Plant Resources Center at the

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