

# Workshop Introductions!



Photo courtesy of FLMNH

# Molly Phillips



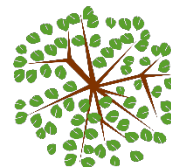
- iDigBio Education and Outreach Coordinator
- Background in natural history collections and ecology
- Interests: Getting digitized biodiversity resources into the classroom and learning more about the world of K-12 education.



Photo courtesy of FLMNH



**iDigBio**  
Integrated Digitized Biocollections



**BLUE**  
Biodiversity Literacy in Undergraduate Education

# Bruce J. MacFadden

Distinguished Professor &  
Curator of Vertebrate Paleontology  
Director of E&O, iDigBio



## Formal & Informal Education experience

- Associate Director in charge of Exhibits & Education, FLMNH (1996-2004)
- Program Officer, Education (EHR), Lifelong Learning, NSF (2009-2010)
- Visiting Scientist, Santa Cruz CA County Office of Education (2015-2016)

## Interests

Fossil mammals of the Americas

Broader Impacts of science on society

Museum digitized collections for downstream users



*What fossil is this?*



Ice Age horse



# Amy Bolton

- Manager, Deep Time Education and Outreach, NMNH
- Design and develop educational programs, products and spaces.
- Major Projects: Q?rius, digitizing education collections, Deep Time exhibit design and program development, Forensic Anthropology Lab development, Discovery Room redesign.

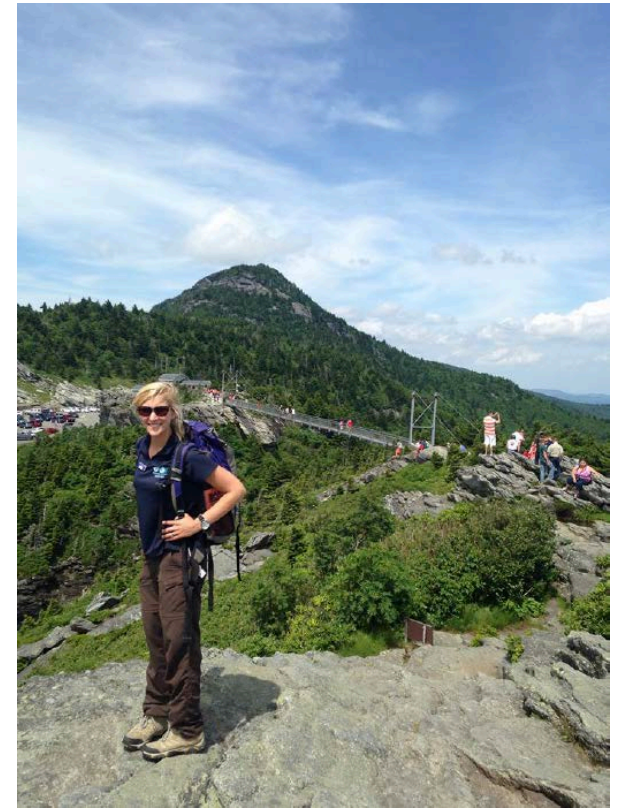


NATIONAL  
MUSEUM of  
NATURAL  
HISTORY



# Jillian Goodwin

iDigBio Project Assistant



- Background: Environmental education, interpretation and natural history
- Interests: Being outside, exploring with my husband and dog, working with kids, and interpreting the importance of utilizing digitized natural history collections in K-12 classrooms and beyond!



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# Marcia A. Mardis

- FSU School of Information Associate Professor and Assistant Dean of Research & Education
- Background in OER, digital learning, and educational informatics
- Interests: Seamlessly getting digitized biodiversity resources learners' hands and helping school librarians and teachers work together to create transformative learning experiences!



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# Shari Ellis

- Trained as a developmental and cross-cultural psychologist
- Joined FLMNH Center for Science Learning in 2001
- Evaluator for iDigBio and partner projects
- Interested in science learning in social contexts



**iDigBio**  
Integrated Digitized Biocollections

Photos courtesy of FLMNH

# Betty A. Duncckel

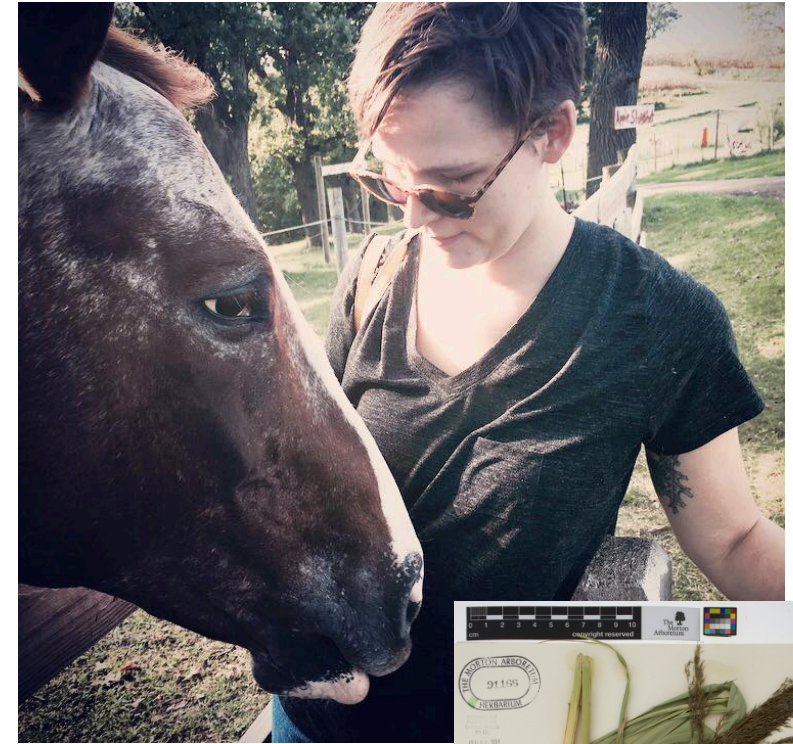
- Program Director, Center for Science Learning, Florida Museum
- Background in informal science education
- Interests: Developing programs to foster science interest, engagement & understanding





# Andrea Miller

- Herbarium and Research Assistant at the Morton Arboretum
- Aquatic Invasives Outreach Coordinator for a digitization TCN
- Background in botany, ecological restoration, and agroecology
- Interests: Communicating value of natural history collections. Herbaria are for everyone!



# Liz Shea



- Curator of Mollusks
- Research Interests: biodiversity of cephalopods; deep sea exploration



- Collections Interests: digitizing mollusk collection data with InvertEBase; integrating value-added data into collections datasets; developing a Mollusk digitization workshop at the upcoming American Malacological Society meeting.

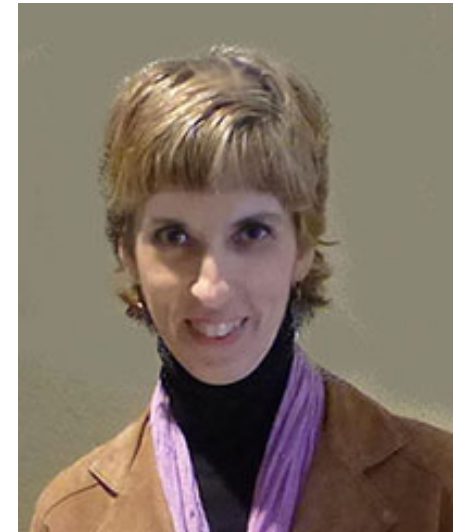


- E&O Interests: Developing collections literacy for students and educators; adding collections-based inquiry and activities into informal science education.



# Anne Basham, M.Phil, Ed.D

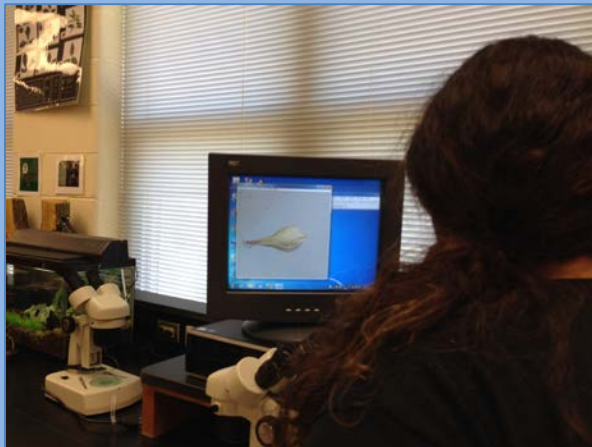
- Education and Outreach Coordinator Arizona State University Natural History Collections
  - Project Director Libraries of Life Project
  - Education and Outreach SCAN Thematic Collection Network/ co-PI LepNet Project
  - Areas of research:
    - Promoting accessibility to collections and science with marginalized audiences.
    - Using 3-D digitization and immersive technologies in developing specimen-based learning tools.
- Contact: [annebasham@asu.edu](mailto:annebasham@asu.edu)





# Marlene Hahn

- Research and Herbarium Assistant at The Morton Arboretum.
- Project Manager for our lab's NSF *Carex* and NSF Oaks of the Americas grants.
- Former Biology and Accelerated Biology Teacher (9<sup>th</sup> and 10<sup>th</sup> grade)
- Interests: Collaborating with teachers and students on scientific research in the lab and the classroom; best practices for educational outreach.







# Liz Baird

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Chief, School and Lifelong Education  
North Carolina Museum of Natural Sciences

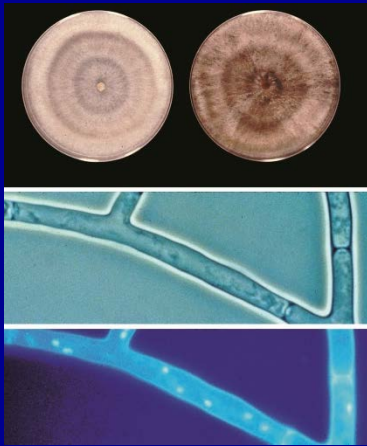
Interests – helping people find passion for the natural world.

Experiences – museum educator, classroom teacher, videoconferencing coordinator, school grounds workshop leader, deepwater corals research mission outreach and education, tropical ecology field-based workshop leader





Marc A. Cubeta, Professor



Assoc. Director

NC STATE

Center for Integrated Fungal Research

Director

LARRY F GRAND MYCOLOGICAL  
HERBARIUM

Search

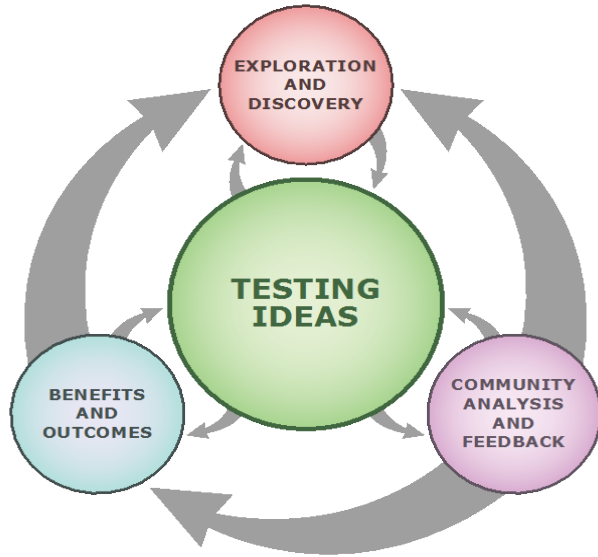


Interests - fungal biology research,  
teaching and outreach activities

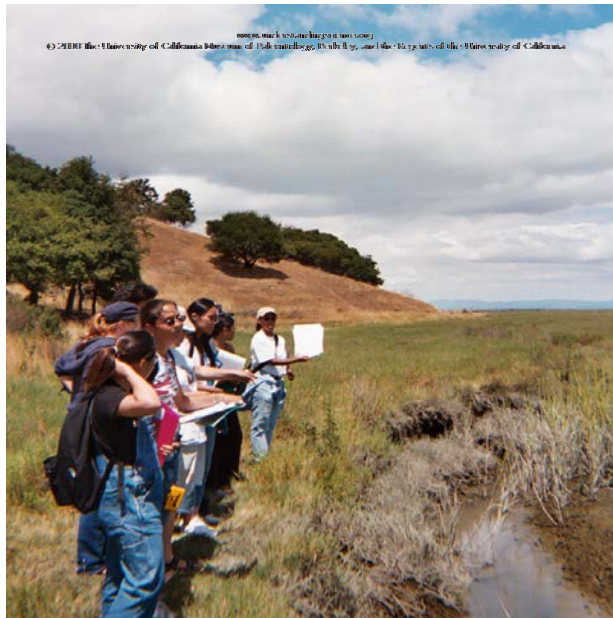
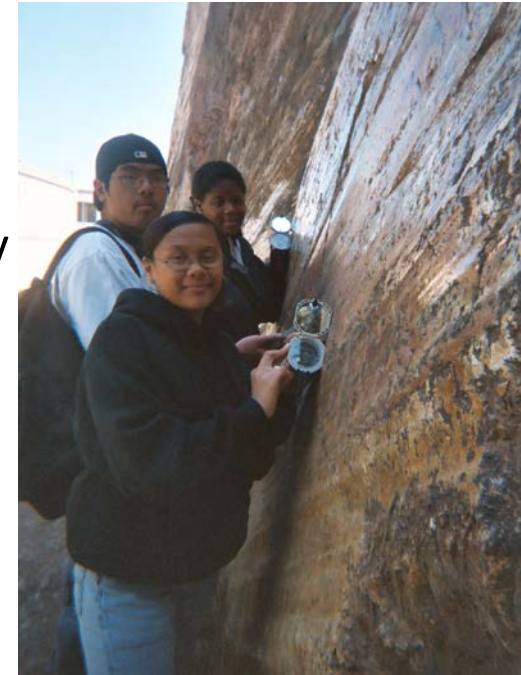




## How science works



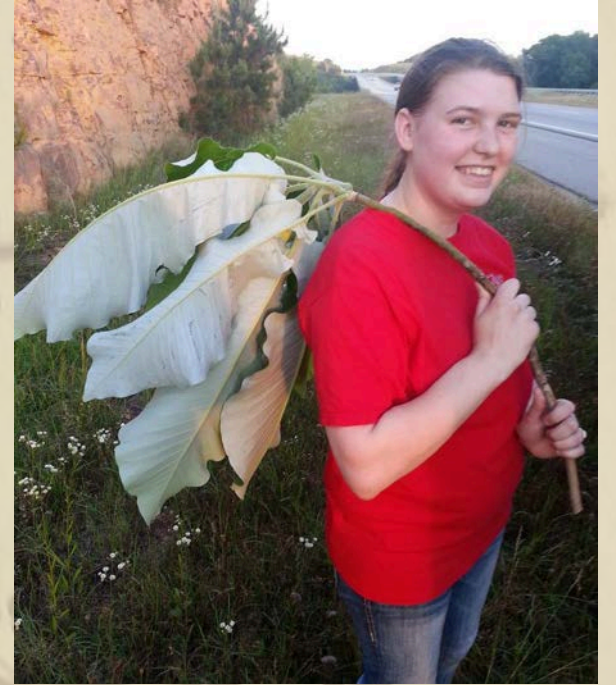
- Education Director, Museum of Paleontology, UC Berkeley
- Adjunct Professor, San Francisco State Univ.
- Paleontologist and field geologist
- Interests: training the next generation of geoscientists, increasing the diversity in geoscience





# Kari Harris

- **I have a lot of Jobs...**
  - **Club Coordinator** (College of Sciences and Mathematics at Arkansas State University)
  - **Instructor Biological Sciences** (A-State Biology Department)
  - **ACBC Collections Manager** (Arkansas Center for Biodiversity Collections)
  - **Founder of Natural History Collections Curation Club** (NHC<sub>3</sub>)
  - **Chair of SPNHC Emerging Professional Committee** (Society for the Preservation of Natural History Collections)
- **Background: Biology Education, Herbarium Digitization**





# Jill Karlson (*with-a-K*)



- Mom to two GREAT girls!
- Director of Public Programming at the Delaware Museum of Natural History since 2013.
- BS in biology/chemistry/oceanography.
- MA in Ed/Museum Ed.
- Giraffe lover...okay I love almost everything about nature...but they're my favorite!
- Museum goer!
- Wine drinker!
- I believe one person CAN make a difference!
- Yada yada...IDigBio!





# Katie Green

- PhD student in STEM Education, North Carolina State University
- Middle school science teacher—12 years
- BA and MS in Anthropology
- Research interests: evolution instruction, integrating the arts into science teaching and learning, the intersection between scientists and educators





**Julie A. Evans, Ed.D.**  
**Chief Executive Officer, Project Tomorrow**

Chief Researcher, Speak Up Research Project

JEvans@tomorrow.org

@JulieEvans\_PT



*Panel of experts at the Speak Up  
Congressional Briefing*

- Education entrepreneur
- Evaluation lead on +25 HE and K-12 digital learning projects
- Writer, commentator, consultant on digital learning trends
- Passionate about infusing the voices of stakeholders into digital learning discussions & plans
- Committed to the effective use of STEM resources to prepare students for future success





- K-12 Science Teacher Preparation Research
  - NSF project to redesign Intro Bio for preservice teachers
- Undergraduate Biology Education Research
  - Using digitized collections data in undergraduate introductory biology (BLUE)
  - Flipped and Active Learning Pedagogies
  - Writing to Learn



**Deb Linton**  
Associate Professor  
Biology

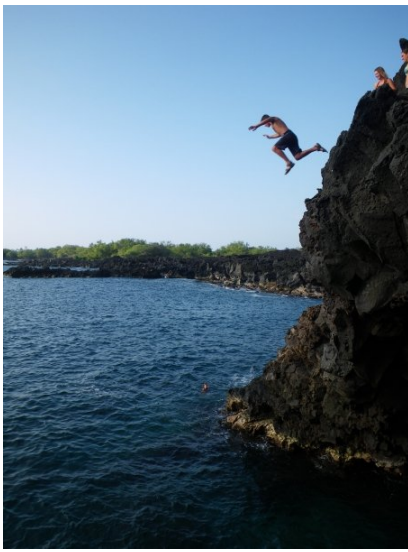


# Castle Kim

- Doctoral Student at Florida State University iSchool
- Background in biology, theater, education, video production, and media design
- Study Interest: STEAM learning for fun science learning and information communication for children. Specifically in developing educational videos with science content integrated into a story/narrative (Scientific Storytelling)
- Ask Castle about *Wild Wonders*



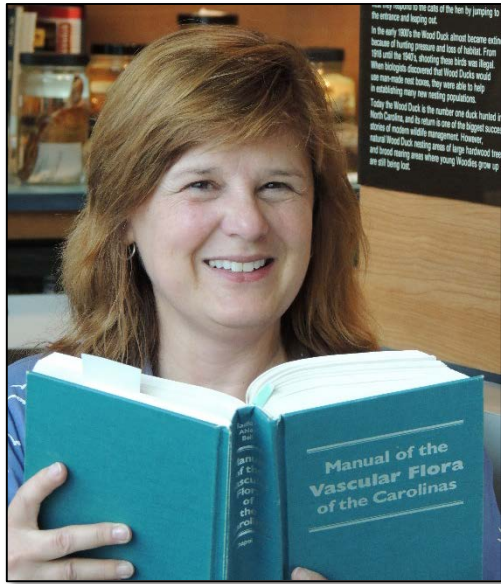




# Austin Conley

- Tour and Outreach Coordinator for the Delaware Museum of Natural History
- Career Focus: Connecting people of all ages to the natural world!
- Herpetology TA at the University of Delaware
- International Turtle Race Announcer
- Great at Halloween Costumes





# Cindy Lincoln

[cynthia.lincoln@naturalsciences.org](mailto:cynthia.lincoln@naturalsciences.org)  
[@NaturalistNC](#) [@CindyLincoln3](#)  
[@naturalsciences](#)



- Coordinator, Naturalist Center, NC Museum of Natural Sciences, Raleigh, NC
- Background in botany, plant developmental biology, horticulture, undergraduate teaching, environmental education
- Interests: science communication, museum collections, conservation, native plants, wildlife habitat, travel





# Adania Flemming



- iDigBio/UF Graduate Student
- Background in natural history collections, ecology and informal education.
- Interests: Helping K-12 students have a better appreciation of biodiversity, natural history collections and science in general. Empowering students to see that they too can be a scientist regardless of their gender, ethnicity or social background. Learning different approaches to k-12 education.



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# Colleen Popson



- Experience Design Manager at Smithsonian's National Museum of Natural History
- Background in collections-based learning, archaeology, and web development
- Interests: Helping audiences connect with the natural world and discover the diverse ways humans have solved problems and interacted with each other and their environment



NATIONAL  
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NATURAL  
HISTORY

Q?rius



CM



CM



CM



# Susan Butts

- Invertebrate Paleontologist (YPM IP Sr. Coll. Mgr.) who works on fossil preservation and biotic response to climate change
- One of the PIs working on [idigpaleo.org](http://idigpaleo.org) – an aggregated fossil database with tools developed for K-12 classroom use
- Really excited to teach the public about collections and collections-based research and let students try it themselves!



Yale PEABODY MUSEUM  
OF NATURAL HISTORY



CRETACEOUS  
WORLD  
TCN



# Austin Mast

- Professor, Dept. of Biological Science, Florida State Univ.
- Director, FSU's Robert K. Godfrey Herbarium
- President, Society of Herbarium Curators
- Background in Botany, Biodiversity Informatics, Citizen Science.
- Interests: Plant evolution and ecology, education and outreach (including the Worldwide Engagement for Digitizing Biocollections Event and the Libraries of Life Augmented Reality Project).



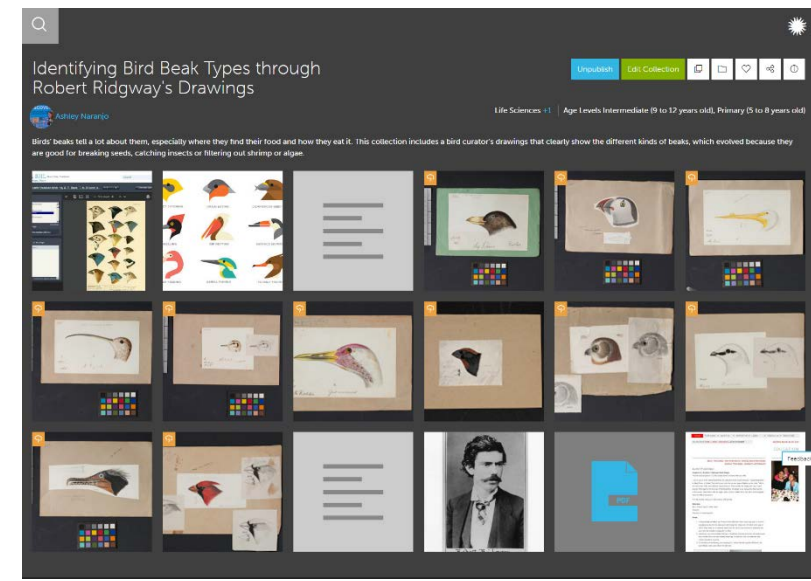
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Integrated Digitized Biocollections



# Ashley Naranjo



Smithsonian



- Learning Initiatives Specialist, Smithsonian Center for Learning and Digital Access
- Background in formal and informal K-12 education
- Interests: Helping museum educators, librarians, teachers and students to use digitized collections to align with their learning goals.



Lynch School  
of Education

USC Rossier  
School of Education

# Christine (Chris) Goforth

- Head, Citizen Science, North Carolina Museum of Natural Sciences
- Background in aquatic entomology, college level instruction, science outreach
- Passions: teaching, science, insects, environmental education, nature photography, science/nature blogging

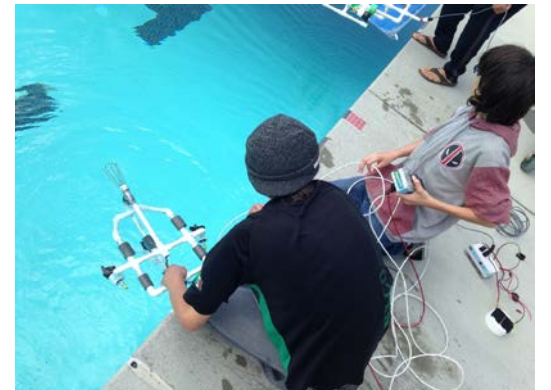




# ROB HOFFMAN



- K-12 Science Curriculum & CTE Coordinator
- BS in Biological Sciences and currently earning MA in Education Leadership & an Administrator Credential
- Interests: faith, family, fostering, goofiness, family winery, learning, science educational pedagogy, creating experiences for students, networking, photography

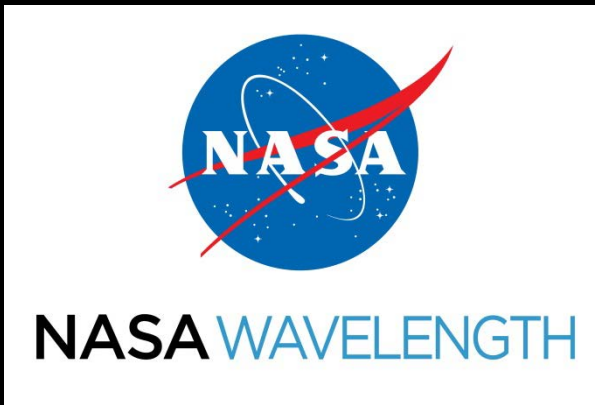


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howtosmile.



NASA WAVELENGTH



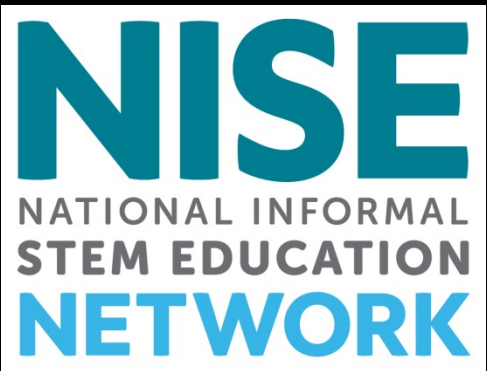
I GOT THIS  
an interactive story



MONSTER HEART MEDIC

NEW GAME

CONTINUE



NISE

NATIONAL INFORMAL  
STEM EDUCATION  
NETWORK



Darrell Porcello, Ph.D.  
Senior Project Manager, UC Berkeley