



## CAROL ABEL

Mobile App Working Group

- **Role:** Arlington Regional Master Naturalist
- **Pronouns:** She/Her
- **Goals:**
  - Support monitoring projects through Nature's Notebook.
  - Transition from paper data collection to digital platforms.
- **Interests:**
  - Observing climate-change impacts on trees and plants as a non-science person.
  - Habitat restoration and environmental stewardship.

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*Carol and the ARMN observers are interested in changes happening due to climate change.*



## JANE BRECKINRIDGE

Mobile App Working Group

- **Role:** Director, Euchee Butterfly Farm & Tribal Alliance for Pollinators
- **Pronouns:** She/Her
- **Goals:**
  - Use phenology to address changes in pollinator plants and pollinators.
  - Improve accessibility and usability of Nature's Notebook.
- **Interests:**
  - Restoration plantings for pollinator support on the Muscogee Nation.
  - Leveraging iNaturalist for community engagement.

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*"It is important to pay attention to phenology to stay ahead of the changes that are coming to pollinator plants and pollinators."*



## DAN DALAN

Mobile App Working Group

- **Role:** Allergist/ Immunologist
- **Pronouns:** He/Him
- **Goals:**
  - Explore the intersection of phenology, weather events, and allergies.
  - Develop products and tools to aid allergy sufferers
- **Interests:**
  - Disproportionate allergy impacts on specific populations.
  - Botany and differences between insect-dispersed and wind dispersed pollen

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*Dan is interested in knowing about how rain, wildfires, and phenology impact allergies and how allergies impact people and their quality of life.*



## DARIUS LEDBETTER

Mobile App Working Group

- **Role:** Graduate Student, North Carolina State University
- **Pronouns:** He/Him
- **Goals:**
  - Study phenology's links to forestry and dendrology.
  - Promote diversity in ecological studies.
- **Interests:**
  - Using iNaturalist to explore habitat and phenology processes.

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*Darius is particularly interested in links to forestry, habitat, and dendrology. He is a big user of iNaturalist!*





## REBECCA EDLER

Mobile App Working Group

- **Role:** Sustainability Coordinator, College of Menominee Nation
- **Pronouns:** She/Her
- **Goals:**
  - Raise awareness of phenology's importance among students and community.
  - Highlight cultural connections to plants and forest ecosystems.
- **Interests:**
  - Engaging diverse groups in phenology education.

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*“Bringing awareness to students, faculty, staff, and community members about the importance of phenology is at the forefront.”*



## FELIX JAVIER “JAVI” BERRIOS ORTEGA

Mobile App Working Group

- **Role:** PhD Student, University of Connecticut
- **Pronouns:** He/Him
- **Goals:**
  - Promote community science and ecological awareness.
  - Make science accessible through technology.
- **Interests:**
  - Engaging communities in tracking climate impacts through phenology.
  - Bridging scientific research and public understanding.

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*“What stands out about phenology is its potential to engage people directly with nature and with pressing environmental issues.”*



## KIM QUILLIN

Mobile App Working Group

- **Role:** Professor, Salisbury University
- **Pronouns:** She/Her
- **Goals:**
  - Incorporate phenology into biology courses.
  - Engage students in research on local climate and urban heat impacts.
- **Interests:**
  - Using Nature's Notebook to connect coursework with real-world climate studies.

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*“What is most useful to me about phenology is that it is a tractable tool to engage students in research connecting human impacts like climate change and urban heat islands to their own community”*



## YEISHMARY M. SOTO-MUNIZ

Mobile App Working Group

- **Role:** Undergraduate Network for Increasing Diversity of Ecologists
- **Pronouns:** She/Her
- **Goals:**
  - Highlight the cultural and interdisciplinary applications of phenology.
  - Connect her background to environmental science and public awareness.
- **Interests:**
  - Linking phenology to cultural identities and underrepresented groups.

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*“My connection to phenology is rooted in my cultural background and experiences, reflecting deep ties to nature”*





## SARAH SMITH

Mobile App Working Group

- **Role:** Social Science Analyst, US Forest Service
- **Pronouns:** She/Her
- **Goals:**
  - Use phenology apps to connect the public to natural resources.
  - Expand educational outreach within the Forest Service.
- **Interests:**
  - Phenology trails as tools to foster public land appreciation.
  - Recreation management and environmental education.

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*“I am most interested in the fact that phenology trail apps and resources can get people into places they may not otherwise go!”*



## TANISHA M. WILLIAMS

Mobile App Working Group

- **Role:** Assistant Professor, University of Georgia
- **Pronouns:** She/Her
- **Goals:**
  - Integrate Nature’s Notebook and phenology into her curriculum.
  - Increase accessibility of phenology tools for diverse audiences.
- **Interests:**
  - Plant biology and phenological research.
  - Engaging students and communities in environmental awareness.

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*“I am excited to hear about best practices, incorporating Nature's Notebook into my courses”*



# JEFF SWITZER

Project Team

- **Role:** Systems Analyst, USA-NPN
- **Pronouns:** He/Him
- **Goals:**
  - Support the IT infrastructure for Nature's Notebook.
  - Translate user vision into improved experiences.
- **Interests:**
  - Technology, nature, and community intersections.
  - Observing phenological changes during outdoor activities.

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*“Phenology awareness has really opened my eyes to things I would have earlier passed by while gardening, hiking, and exploring outdoors”*



# ERIN POSTHUMUS

Project Team

- **Role:** Partnerships and Projects Manager, USA-NPN
- **Pronouns:** She/Her
- **Goals:**
  - Foster partnerships with federal and conservation organizations.
  - Project management, ensure that all the details are accounted for.
- **Interests:**
  - Support observers and Local Phenology Programs.

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*“ I am fascinated by our summer monsoons here in Southern Arizona and the many changes that result in the plants and animals of the Sonoran Desert.”*



# NATHAN ACOSTA

Project Team

- **Role:** Web Developer, USA-NPN
- **Pronouns:** He/Him
- **Goals:**
  - Ensure USA-NPN web platforms meet user needs.
  - Provide smooth and efficient IT infrastructure.
- **Interests:**
  - Climate research, public health applications of phenology.

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*“I am passionate about educating people about phenology and nature.”*



# ELLEN DENNY

Project Team

- **Role:** Monitoring Design and Data Coordinator, USA-NPN
- **Pronouns:** She/Her
- **Goals:**
  - Simplify phenology monitoring protocols while ensuring data quality.
  - Enhance the usability of Nature’s Notebook.
- **Interests:**
  - Marine and forest ecologist, worked in the woods, collecting data on plants and soil which led to discovery of phenology!

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*“Following the phenology in my yard keeps me grounded and in tune with the natural world, especially on those days I feel overwhelmed.”*





## J.D. GIBBS

Project Team

- **Role:** Application Developer, UArizona
- **Pronouns:** He/Him
- **Goals:**
  - Lead the development of the new Nature's Notebook Native and Web App
  - Create engaging mobile experiences for phenology.
  - Simplify species identification for users.
- **Interests:**
  - Learning about phenology!

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*“You can consider me a phenology newbie - but I’m really enjoying learning about it!”*



## KIM DALY

Project Team

- **Role:** Designer, Communications and Cyber Technologies, UArizona
- **Pronouns:** She/Her
- **Goals:**
  - Visualize life sciences concepts effectively by leveraging technology.
  - Use Nature's Notebook to understand climate impacts.
- **Interests:**
  - Work on projects related to the life sciences
  - Observing patterns in nature through an artistic lens.

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*“I am curious to learn more about phenology and how NN can provide insight on nature and how climate change is affecting our natural world”*



## ANN SHIVERS- MCNAIR

Project Team

- **Role:** UX Researcher, UArizona
- **Pronouns:** She/Her
- **Goals:**
  - Support community science for climate justice.
  - Enhance user-centered design in phenology projects.
- **Interests:**
  - Bridging science and community understanding of climate impacts.

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*Phenology is important to me because I care about climate justice—and I also care about the USA-NPN’s approach to phenology, specifically, because I’m a strong believer in community science.”*



## ALISON MEADOW

Project Team

- **Role:** Social Scientist, UArizona
- **Pronouns:** She/Her
- **Goals:**
  - Link environmental science with decision-making on climate adaptation.
  - Expand phenology data access to diverse group of communities, researchers, and decision makers.
- **Interests:**
  - Demonstrating phenology’s role in understanding climate changes.

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*“Phenology can be a great way for people to learn about our changing climate and environment in a way that is very close-to-home.”*





## CHI NGUYEN

Project Team

- **Role:** Graduate Assistant, USA-NPN
- **Pronouns:** She/Her
- **Goals:**
  - Understand user motivations for joining Nature's Notebook.
  - Enhance support for volunteers and program leaders.
- **Interests:**
  - Leveraging phenology for climate and community connections.

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*“It’s really fascinating how phenology data can be used in the study of climate change, emphasizing the fact that everything is connected!”*



## RACHEL GOLAND

Project Team

- **Role:** Contractor, USA-NPN
- **Pronouns:** She/Her
- **Goals:**
  - Support US Forest Service phenology needs within the project.
  - Integrate phenology data into ecological project designs.
- **Interests:**
  - Temporal ecology and citizen science in natural landscapes.

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*“We so often think about ecology spatially and I love that phenology incorporates a temporal dimension into how we understand and communicate about the natural world.”*





# THERESA CRIMMINS

Project Team

- **Role:** Director, USA-NPN
- **Pronouns:** She/Her
- **Goals:**
  - Collaborate with data collectors and users.
  - Promote understanding of phenology's impact on everyday life.
- **Interests:**
  - Engaging people of all ages in observing seasonal changes.

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*"I am continually surprised by how complex the subject of phenology actually is and how much it intersects with our everyday lives"*



# ERIN ZYLSTRA

Project Team

- **Role:** Research Scientist, USA-NPN
- **Pronouns:** She/Her
- **Goals:**
  - Improve phenology data collection methods for high-quality information
  - Investigate climate impacts on plant species and communities.
- **Interests:**
  - Spending time on the field, applying phenology to wildlife and plant research.

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*"Most research I've done has been focused on wildlife populations. I am excited to be thinking more about phenology and how climate change is impacting plant species and communities."*



## ROB GULRANICK

Project Team

- **Role:** Curator of Biodiversity Informatics, Florida Museum of Natural History, University of Florida
- **Pronouns:** He/Him
- **Goals:**
  - Understand species' responses to global change and disturbances.
  - Advance phenology data integration with global biodiversity resources.
  - Support the NPN through collaborative projects and funding.
- **Interests:**
  - Developing phenology knowledge resources for community use.

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Rob's work with USA-NPN is focused on integration with other global biodiversity resources.



## ERIN GRADY

Project Team

- **Role:** Graduate Student, University of Florida
- **Pronouns:** She/Her
- **Goals:**
  - Develop a standardized datastore for global phenology data
  - Connect phenology with community engagement on climate issues.
- **Interests:**
  - Using phenology to foster conversations about climate change.

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*"I view phenology as an opportunity to find common ground with non-scientists and start the conversation about climate change."*