

Welcome

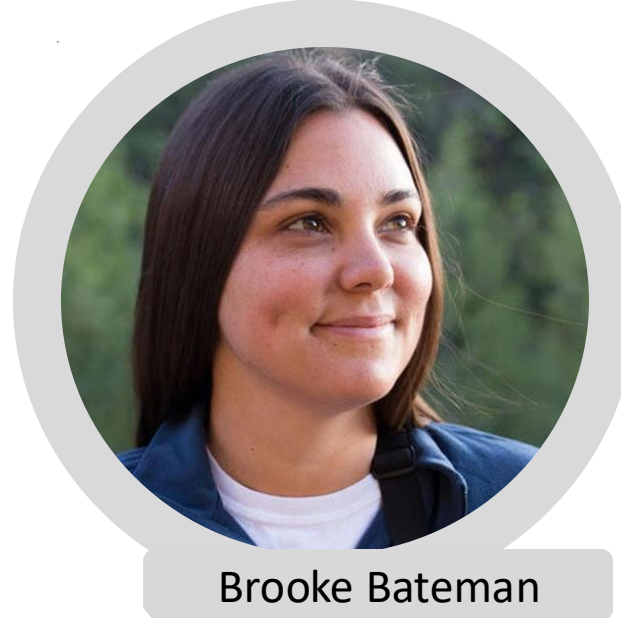
Agenda:

- The Team
- Project History
- Project Overview
- Q & A

Iterative Improvement of a Program for Building Inclusive, Diverse, Equitable, Accessible Large-scale (IDEAL) Participatory Science Projects



Caren Cooper



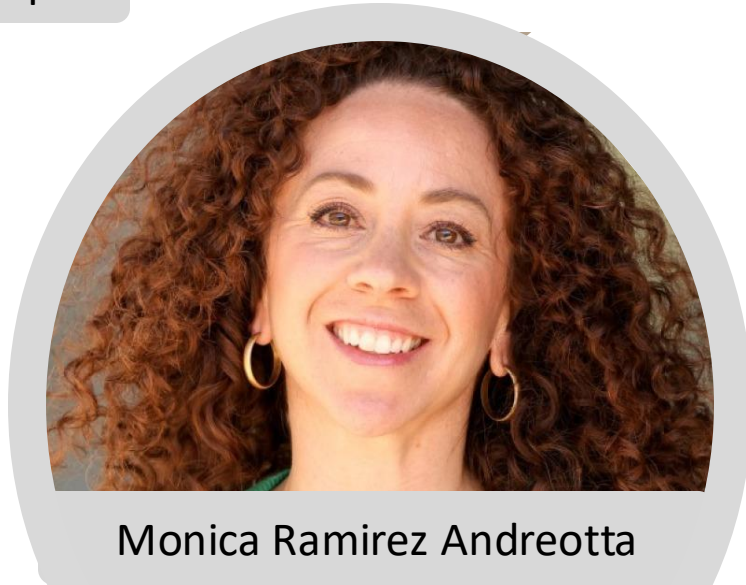
Brooke Bateman



Valerie Johnson



Russ Schumacher



Monica Ramirez Andreotta



Senior Personnel



Freya McGregor



Ashley Dayer



Noah Newman



Gregorinah Hartman



Geoff LeBaron



Project Coordinator, NCSU

Future Graduate Student, NCSU

?

Graduate Student, NCSU

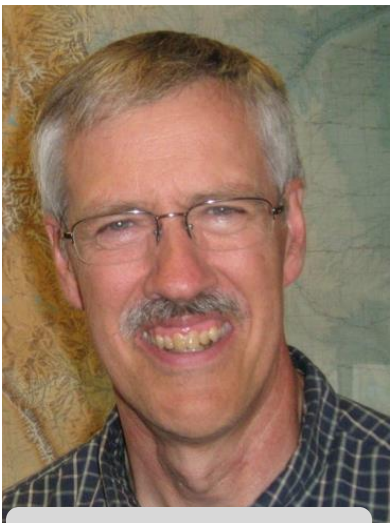
?

Graduate Student, UoA

?

New Hire Audubon

Advisory Board



Nolan Doesken



Na'Taki Osborne-Jelks



Chris Hawn



Greses Perez



Hali Dardar

Evaluators



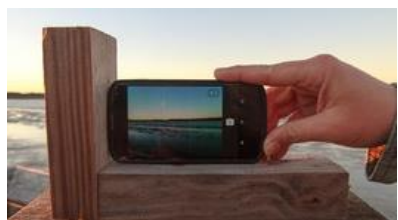
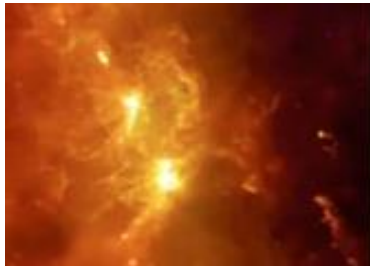
Karen Peterman



Keshia Martin



Veronica Del Bianco



APPROACHES TO CITIZEN SCIENCE

Citizen Science

Community Science

	CONTRIBUTORY	COLLABORATIVE	CO-CREATED
Define a Question/Issue			✓
Gather Information			✓
Develop Explanations		✓	✓
Design Data Collection Methods		✓	✓
Collect Samples	✓	✓	✓
Analyze Samples	✓	✓	✓
Analyze Data		✓	✓
Interpret Data/Conclude			✓
Disseminate Conclusions			✓
Discuss Results/Inquire Further			✓

FIGURE 1: Three different approaches to citizen-science research, characterized by the degree of participant involvement in carrying out scientific investigations (Bonney et al. 2009).

Broadening the Community of Practitioners of the Citizen Science Association



CITIZEN SCIENCE
ASSOCIATION





DIVERSITY

Inclusion in citizen science: The conundrum of rebranding

Cooper, C.B., Hawn, C.L., Larson, L.R., Parrish, J.K., Bowser, G., Cavalier, D., Dunn, R.R., Haklay, M., Gupta, K.K., Jelks, N.T.O. and Johnson, V.A., 2021. Inclusion in citizen science: The conundrum of rebranding. *Science*, 372(6549), pp.1386-1388.



Caren Cooper



Valerie Johnson



Monica Ramirez-Andreotta



Chris Hawn

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Inclusive

Diverse

Equitable

Accessible

Large-scale

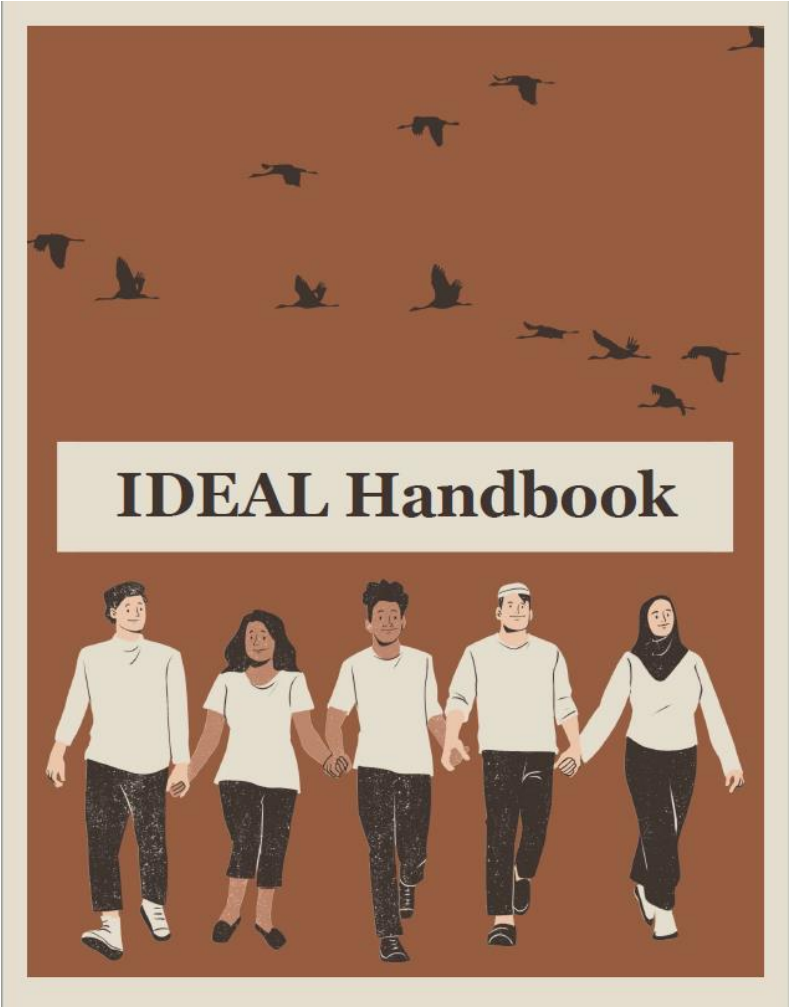



Inclusive, Diverse, Equitable, Accessible, Large-Scale (*IDEAL*) Participatory Science



CB Cooper, C Hawn, V Johnson, M Ramirez-Andreotta, J Archer, H Caballero-Gomez, D Chandler, L Higgins, G Lee Jenni, Z Leggett, D Lin Hunter, R Moore, S Moreno, M Ordeñana, N Osborne Jelks, R Pandya, N Patel, and D Perkins. 2023. **A Handbook for Inclusive, Diverse, Equitable, Accessible, Large-scale (IDEAL) Participatory Science.**







IDEAL Participatory Science Tutorial
Updated by Julie Allen • Current Version ▾

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IDEAL Participatory Science Tutorial

START COURSE

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STAGE 1

Personal Reflection

WORKSHEET 1

Project Leadership

Social
Identity
Lived
Experiences
Beliefs
Affiliation

IDEAL
Positionality Tool

WORKSHEET 2

Participants

Who is present?
Who is absent?

IDEAL
Participant
Survey

WORKSHEET 3

Focal Group

Engagement
Goals

STAGE 2

Project Design

WORKSHEET 4

Representation in Governance

Advisory Board

Equitable
Partnerships

Hiring &
Promotion

WORKSHEET 5

Reciprocity

Localization

Projects as
tools for
distributed
capacity

Governance &
Sovereignty

Re-order
research
priorities

WORKSHEET 6

Center the Margins

Reimagine
project
narratives

Accessibility

Affinity Groups

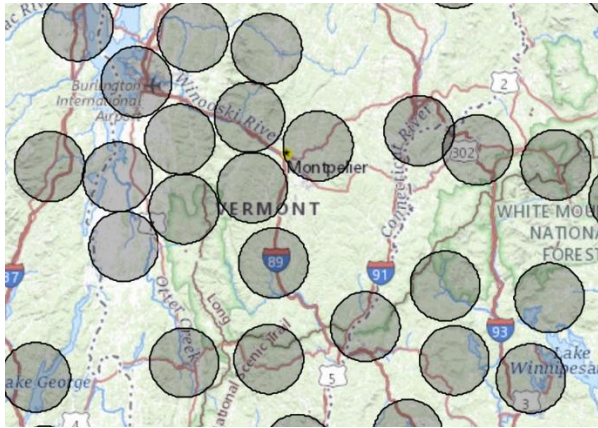
Recognize &
Address social
safety issues

Implementation Plan



State/Regional Coordinators

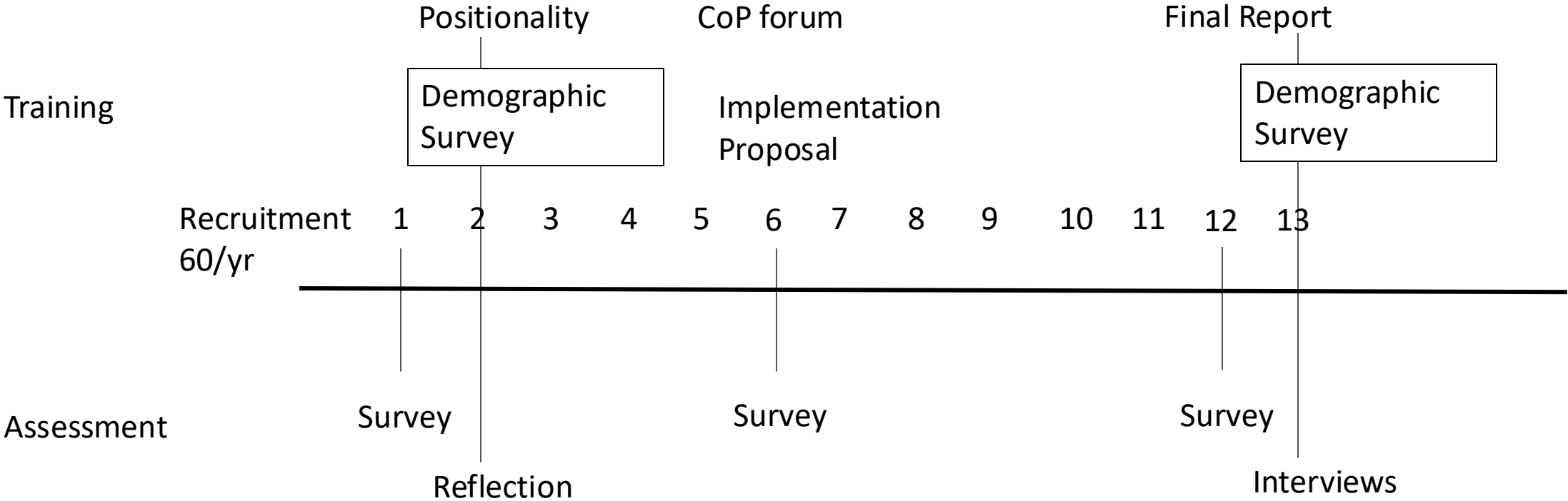
Local Leaders



2 IDEAL cohorts of 30 individuals each, for three years (n=180)

- 1 - stipend of \$100 at 6month mid-way point; and another \$100 at 12 month
- 2 - free training in IDEAL principles and practices (Handbook/Tutorial)
- 3 - free access to peer community of practice (CoP)
- 4 - qualify for implementation support (\$2500-\$5,000)
- 5 - increased diversity of participants in their local CBC/CoCoRaHS





Treatment
2,000/yr

Demographic
Survey (800/yr)

Demographic
Survey

1 2 3 4 5 6 7 8 9 10 11 12 13

Control

Demographic
Survey (800/yr)

Demographic
Survey



Evaluation

High-level
adopters

Formative (10)

Summative (6 additional per year)

1 2 3 4 5 6 7 8 9 10 11 12 13

Low-level
adopters

Summative (6 additional per year)

