

# **Citizen Science**

**Mary Ellen Hannibal**

The Science of Citizen Science Katrin Vohland, Anne Landzandstra, Luigi Ceccaroni, Rob Lemmens, Josep Perelló, Marisa Ponti, Roeland Samson, Katherin Wagenknecht, 2021 This open access book discusses how the involvement of citizens into scientific endeavors is expected to contribute to solve the big challenges of our time, such as climate change and the loss of biodiversity, growing inequalities within and between societies, and the sustainability turn. The field of citizen science has been growing in recent decades. Many different stakeholders from scientists to citizens and from policy makers to environmental organisations have been involved in its practice. In addition, many scientists also study citizen science as a research approach and as a way for science and society to interact and collaborate. This book provides a representation of the practices as well as scientific and societal outcomes in different disciplines. It reflects the contribution of citizen science to societal development, education, or innovation and provides an overview of the field of actors as well as on tools and guidelines. It serves as an introduction for anyone who wants to get involved in and learn more about the science of citizen science.

Citizen Science Caren Cooper, 2016-12-20 True stories of everyday volunteers participating in scientific research that “may well prompt readers to join the growing community” (Booklist). Think you need a degree in science to contribute to important scientific discoveries? Think again. All around the world, in fields ranging from meteorology to ornithology to public health, millions of everyday people are choosing to participate in the scientific process. Working in cooperation with scientists in pursuit of information, innovation, and discovery, these volunteers are following protocols, collecting and reviewing data, and sharing their observations. They’re our neighbors, in-laws, and coworkers. Their story, along with the story of the social good that can result from citizen science, has largely been untold, until now. Citizen

scientists are challenging old notions about who can conduct research, where knowledge can be acquired, and even how solutions to some of our biggest societal problems might emerge. In telling their story, Caren Cooper just might inspire you to rethink your own assumptions about the role that individuals can play in gaining scientific understanding—and putting that understanding to use as a steward of our world. “Engaging.” —Library Journal (starred review)

The Field Guide to Citizen Science Darlene Cavalier, Catherine Hoffman, Caren Cooper, 2020-02-04 Citizen science is the public involvement in the discovery of new scientific knowledge. A citizen science project can involve one person or millions of people collaborating towards a common goal. It is an approachable and inclusive movement, making it an excellent option for anyone looking for ways to get involved and make a difference. The Field Guide to Citizen Science provides everything you need to get started. You’ll learn what citizen science is, how to succeed and stay motivated when you’re participating in a project, and how the data is used. The fifty included projects, ranging from climate change to Alzheimer’s disease, endangered species to space exploration, mean sure-fire matches for your interests and time. Join the citizen science brigade now, and start making a real difference!

Citizen Science Susanne Hecker, Muki Haklay, Anne Bowser, Zen Makuch, Johannes Vogel, Aletta Bonn, 2018-10-15 Citizen science, the active participation of the public in scientific research projects, is a rapidly expanding field in open science and open innovation. It provides an integrated model of public knowledge production and engagement with science. As a growing worldwide phenomenon, it is invigorated by evolving new technologies that connect people easily and effectively with the scientific community. Catalysed by citizens’ wishes to be actively involved in scientific processes, as a result of recent societal trends, it also offers contributions to the rise in tertiary education. In addition, citizen science provides a

valuable tool for citizens to play a more active role in sustainable development. This book identifies and explains the role of citizen science within innovation in science and society, and as a vibrant and productive science-policy interface. The scope of this volume is global, geared towards identifying solutions and lessons to be applied across science, practice and policy. The chapters consider the role of citizen science in the context of the wider agenda of open science and open innovation, and discuss progress towards responsible research and innovation, two of the most critical aspects of science today.

**Citizen Scientists** Loree Griffin Burns, 2012-02-14 Shows young readers how a citizen scientist learns about butterflies, birds, frogs, and ladybugs.

*Citizen Science* Janis L. Dickinson, Richard E. Bonney, Jr., 2012-04-07 Citizen science enlists members of the public to make and record useful observations, such as counting birds in their backyards, watching for the first budding leaf in spring, or measuring local snowfall. The large numbers of volunteers who participate in projects such as Project FeederWatch or Project BudBurst collect valuable research data, which, when pooled together, create an enormous body of scientific data on a vast geographic scale. In return, such projects aim to increase participants' connections to science, place, and nature, while supporting science literacy and environmental stewardship. In *Citizen Science*, experts from a variety of disciplines—including scientists and education specialists working at the Cornell Lab of Ornithology, where many large citizen science programs use birds as proxies for biodiversity—share their experiences of creating and implementing successful citizen science projects, primarily those that use massive data sets gathered by citizen scientists to better understand the impact of environmental change. This first and foundational book for this developing field of inquiry addresses basic aspects of how to conduct citizen science projects, including goal-setting, program design, and evaluation, as well as the

nuances of creating a robust digital infrastructure and recruiting a large participant base through communications and marketing. An overview of the types of research approaches and techniques demonstrates how to make use of large data sets arising from citizen science projects. A final section focuses on citizen science's impacts and its broad connections to understanding the human dimensions and educational aspects of participation. Citizen Science teaches teams of program developers and researchers how to cross the bridge from success at public engagement to using citizen science data to understand patterns and trends or to test hypotheses about how ecological processes respond to change at large geographic scales. Intended as a resource for a broad audience of experts and practitioners in natural sciences, information science, and social sciences, this book can be used to better understand how to improve existing programs, develop new ones, and make better use of the data resources that have accumulated from citizen science efforts. Its focus on harnessing the impact of crowdsourcing for scientific and educational endeavors is applicable to a wide range of fields, especially those that touch on the importance of massive collaboration aimed at understanding and conserving what we can of the natural world.

### **Analyzing the Role of Citizen Science in Modern**

**Research** Ceccaroni, Luigi, Piera, Jaume, 2016-10-25 As the need for sustainable development practices around the world continues to grow, it has become imperative for citizens to become actively engaged in the global transition. By evaluating data collected from various global programs, researchers are able to identify strategies and challenges in implementing civic engagement initiatives. Analyzing the Role of Citizen Science in Modern Research focuses on analyzing data on current initiatives and best practices in citizen engagement and education programs across various disciplines. Highlighting emergent research and application techniques within citizen science initiatives, this publication appeals to academicians, researchers, policy makers,

government officials, technology developers, advanced-level students and program developers interested in launching or improving citizen science programs across the globe.

**Citizen Science** Alan Irwin, 2002-01-10 We are all concerned by the environmental threats facing us today. Environmental issues are a major area of concern for policy makers, industrialists and public groups of many different kinds. While science seems central to our understanding of such threats, the statements of scientists are increasingly open to challenge in this area. Meanwhile, citizens may find themselves labelled as 'ignorant' in environmental matters. In *Citizen Science* Alan Irwin provides a much needed route through the fraught relationship between science, the public and the environmental threat.

**Citizen Science** Nancy M. Trautmann, 2013 The editors of this book have a straightforward goal: to inspire you to engage your students through public collaboration in scientific research--also known as citizen science. The book is specifically designed to get you comfortable using citizen science to support independent inquiry through which your students can learn both content and process skills. *Citizen Science* offers you: Real-life case studies of classes that engaged in citizen science and learned authentic scientific processes and the habits of mind associated with scientific reasoning. Fifteen stimulating lessons you can use to build data collection and analysis into your teaching. Plenty of flexibility. You can use the lessons with or without access to field or lab facilities; whether or not your students can collect and submit data of their own; and inside your classroom or outside through fieldwork in schoolyards, parks, or other natural areas in urban or rural settings. You don't need an advanced degree in science to guide your students in productive participation in one of a growing variety of citizen science projects. As the editors note, Such involvement can scaffold teachers' entry into facilitating student investigation while connecting students with relevant, meaningful, and real experiences with science.

## **Citizen Science** Susanne Hecker, Muki Haklay, Anne

Bowser, Zen Makuch, Johannes Vogel, Aletta Bonn, 2018-10-15

Citizen science, the active participation of the public in scientific research projects, is a rapidly expanding field in open science and open innovation. It provides an integrated model of public knowledge production and engagement with science. As a growing worldwide phenomenon, it is invigorated by evolving new technologies that connect people easily and effectively with the scientific community. Catalysed by citizens' wishes to be actively involved in scientific processes, as a result of recent societal trends, it also offers contributions to the rise in tertiary education. In addition, citizen science provides a valuable tool for citizens to play a more active role in sustainable development. This book identifies and explains the role of citizen science within innovation in science and society, and as a vibrant and productive science-policy interface. The scope of this volume is global, geared towards identifying solutions and lessons to be applied across science, practice and policy. The chapters consider the role of citizen science in the context of the wider agenda of open science and open innovation, and discuss progress towards responsible research and innovation, two of the most critical aspects of science today.

## Handbook of Citizen Science in Ecology and Conservation

Christopher A. Lepczyk, Owen D. Boyle, Timothy L. V. Vargo, 2020

Handbook of Citizen Science in Ecology and Conservation is the first practical and comprehensive manual that provides step-by-step instructions for creating natural science research projects that involve collaboration between scientists and the general public. As citizen-science projects become increasingly common, there is a growing need for concrete best practices around planning and implementing successful projects that can allow project leaders to guide and gauge success of projects while ensuring the collection of high-quality data. Based on a variety of case studies from several citizen-science projects, this is the

definitive reference guide for all potential citizen-science practitioners, ranging from professors and graduate students to staff at agencies and nongovernmental organizations--

Citizen Science Alan Irwin,2002-01-10 We are all concerned by the environmental threats facing us today. Environmental issues are a major area of concern for policy makers, industrialists and public groups of many different kinds. While science seems central to our understanding of such threats, the statements of scientists are increasingly open to challenge in this area. Meanwhile, citizens may find themselves labelled as 'ignorant' in environmental matters. In Citizen Science Alan Irwin provides a much needed route through the fraught relationship between science, the public and the environmental threat.

Geographic Citizen Science Design Artemis Skarlatidou,Muki Haklay,2021-02-04 Little did Isaac Newton, Charles Darwin and other 'gentlemen scientists' know, when they were making their scientific discoveries, that some centuries later they would inspire a new field of scientific practice and innovation, called citizen science. The current growth and availability of citizen science projects and relevant applications to support citizen involvement is massive; every citizen has an opportunity to become a scientist and contribute to a scientific discipline, without having any professional qualifications. With geographic interfaces being the common approach to support collection, analysis and dissemination of data contributed by participants, 'geographic citizen science' is being approached from different angles. Geographic Citizen Science Design takes an anthropological and Human-Computer Interaction (HCI) stance to provide the theoretical and methodological foundations to support the design, development and evaluation of citizen science projects and their user-friendly applications. Through a careful selection of case studies in the urban and non-urban contexts of the Global North and South, the chapters provide insights into the design and interaction barriers, as well as on the lessons learned from the



engagement of a diverse set of participants; for example, literate and non-literate people with a range of technical skills, and with different cultural backgrounds. Looking at the field through the lenses of specific case studies, the book captures the current state of the art in research and development of geographic citizen science and provides critical insight to inform technological innovation and future research in this area.

**Citizen Scientist** Mary Ellen Hannibal, 2016-09-06 A San Francisco Chronicle Best Book of the Year: "Intelligent and impassioned, *Citizen Scientist* is essential reading for anyone interested in the natural world." A Nautilus Award Winner in Ecology and Environment Award-winning writer Mary Ellen Hannibal has long reported on scientists' efforts to protect vanishing species. But it was only through citizen science that she found she could take action herself. As she wades into tide pools, spots hawks, and scours mountains, she discovers the power of the heroic volunteers who are helping scientists measure—and even slow—today's unprecedented mass extinction. Citizen science may be the future of large-scale field research—and "might be our last, best hope for solving myriad environmental predicaments" (Library Journal). our planet's last, best hope. "Inspired by the likes of marine biologist Ed Ricketts, [Hannibal] records starfish die-offs, meets the geeks who track deforestation, and plans a web-based supercommunity of citizen scientists to counter what many are calling the sixth great extinction. A cogent call to action." —Nature "Hannibal's use of details verges on the sublime." —East Hampton Star "[A] celebration of nonexperts' contributions to science." —Scientific American

**Citizen Science in the Digital Age** James Wynn, 2017-01-10 James Wynn's timely investigation highlights scientific studies grounded in publicly gathered data and probes the rhetoric these studies employ. Many of these endeavors, such as the widely used SETI@home project, simply draw on the processing power of participants' home computers; others, like the protein-folding

game FoldIt, ask users to take a more active role in solving scientific problems. In *Citizen Science in the Digital Age: Rhetoric, Science, and Public Engagement*, Wynn analyzes the discourse that enables these scientific ventures, as well as the difficulties that arise in communication between scientists and lay people and the potential for misuse of publicly gathered data.

**Science by the People** Aya H. Kimura, Abby

Kinchy, 2019-09-13 Studies show that citizen science projects--projects involving nonprofessionals--face dilemmas ranging from austerity to presumed boundaries between science and activism. By unpacking the politics of citizen science, this book aims to help people negotiate a complex political landscape and choose paths moving toward social change and environmental sustainability.

**Online Citizen Science and the Widening of Academia**

Vickie Curtis, 2018-04-20 This book examines the increasing popularity of online citizen science projects arising from developments in ICT and rapid improvements in data storage and generation. As these new technologies allow for much higher levels of participation, collaboration and interaction, the author explores what online citizen science projects reveal about the 'democratisation' of science and distributed engagement with authentic research. Analysing the wider appeal of these projects as well as their potential for informal science learning and creating communities of practice, this book asks whether 'citizen' and 'researcher' will ever be on equal footing. Drawn from years of mixed-methods research, this volume sheds light on this under-researched subject area despite its recent growth and enormous potential. It is sure to be of interest to students and scholars of democratised knowledge, citizen science and online learning, as well as those already involved in citizen science.

**Citizen Scientist** Mary Ellen Hannibal, 2017-08-22 A San

Francisco Chronicle Best Book of 2016: "Intelligent and impassioned, *Citizen Scientist* is essential reading for anyone interested in the natural world." Award-winning writer Mary Ellen

Hannibal has long reported on scientists' efforts to protect vanishing species, but it was only through citizen science that she found she could take action herself. As she wades into tide pools, spots hawks, and scours mountains, she discovers the power of the heroic volunteers who are helping scientists measure—and even slow—today's unprecedented mass extinction. Citizen science may be the future of large-scale field research—and our planet's last, best hope.

Learning Through Citizen Science National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Science Education, Committee on Designing Citizen Science to Support Science Learning, 2018-12-28 In the last twenty years, citizen science has blossomed as a way to engage a broad range of individuals in doing science. Citizen science projects focus on, but are not limited to, nonscientists participating in the processes of scientific research, with the intended goal of advancing and using scientific knowledge. A rich range of projects extend this focus in myriad directions, and the boundaries of citizen science as a field are not clearly delineated. Citizen science involves a growing community of professional practitioners, participants, and stakeholders, and a thriving collection of projects. While citizen science is often recognized for its potential to engage the public in science, it is also uniquely positioned to support and extend participants' learning in science. Contemporary understandings of science learning continue to advance. Indeed, modern theories of learning recognize that science learning is complex and multifaceted. Learning is affected by factors that are individual, social, cultural, and institutional, and learning occurs in virtually any context and at every age. Current understandings of science learning also suggest that science learning extends well beyond content knowledge in a domain to include understanding of the nature and methods of science. Learning Through Citizen Science: Enhancing Opportunities by Design discusses the potential of

citizen science to support science learning and identifies promising practices and programs that exemplify the promising practices. This report also lays out a research agenda that can fill gaps in the current understanding of how citizen science can support science learning and enhance science education.

Be a Citizen Scientist! Michael Rajczak, 2018-07-15 Citizen science, when scientists need observations from ordinary people to build a database and complete research, is hot right now in many science fields. Climate change, migration patterns, plant growth, population changes, and more require an all-hands-on-deck approach to data gathering that allows even young readers to participate in scientific pursuits. But how? This book, written by a veteran teacher, answers all the questions children have about how, where, and why it's so important to engage in citizen science. Accessible language and web resources throughout the text point young readers in the right direction.

## Unveiling the Power of Verbal Artistry: An Mental Sojourn through **Citizen Science**

In a global inundated with screens and the cacophony of instant interaction, the profound power and mental resonance of verbal beauty often fade in to obscurity, eclipsed by the regular assault of sound and distractions. Yet, nestled within the lyrical pages of **Citizen Science**, a charming function of literary elegance that impulses with organic feelings, lies an unforgettable trip waiting to be embarked upon. Written by way of a virtuoso wordsmith, that mesmerizing opus courses viewers on a psychological odyssey, delicately exposing the latent possible and profound impact embedded within the elaborate internet of language. Within the heart-wrenching expanse of this evocative analysis, we can embark upon an introspective exploration of the book is central styles, dissect its charming writing fashion, and immerse ourselves

in the indelible impression it leaves upon the depths of readers souls.

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