



# Citizen Science

**Kathryn Hulick**



## **Citizen Science:**

Citizen Science Janis L. Dickinson, Rick Bonney, 2012-03-27 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

**The Field Guide to Citizen Science** Darlene Cavalier, Catherine Hoffman, Caren Cooper, 2020-02-04 Learn how monitoring the night sky mapping trees photographing dragonflies and identifying mushrooms can help save the world 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 excellent option for anyone looking for ways to get involved and make a difference The Field Guide to Citizen Science from the expert team at SciStarter 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* 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 **The Science of**

**Citizen Science** Katrin Vohland,Anne Land-zandstra,Luigi Ceccaroni,Rob Lemmens,Josep Perelló,Marisa Ponti,Roeland Samson,Katherin Wagenknecht,2021-01-11 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** 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 **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 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 Open Citizen Science Data and Methods Anne Bowser,Sven Schade,Alex de Sherbinin,2022-11-25 **Citizen Science: Reducing Risk and Building Resilience to Natural Hazards** Jonathan D. Paul,David M. Hannah,Wei Liu,2020-01-17 **Citizen Science and Social Innovation: Mutual Relations, Barriers, Needs, and Development Factors** Andrzej Klimczuk,2022-03-21 Abstract Social innovations are usually understood as new ideas initiatives or solutions that make it possible to meet the challenges of societies in fields such as social security education employment culture health environment housing and economic development On the one hand many citizen science activities serve to achieve scientific as well as social and educational goals Thus these actions are opening an arena for introducing social innovations On the other hand some social innovations are further developed adapted or altered after the involvement of scientist supervised citizens laypeople or volunteers in research and with the use of the citizen science tools and methods such as action research crowdsourcing and community based participatory research Such approaches are increasingly recognized as crucial for gathering data addressing community needs and creating engagement and cooperation between citizens and professional scientists However there are also vari Citizen Science Kathryn Hulick,2020 Citizen Scientist Mary Ellen Hannibal,2016-09-06 Citizen science might just be our last best chance to fight extinction But is there really hope for threatened species Mary Ellen Hannibal needed to find out Hannibal an award winning writer and emerging emissary from scientists to the public sets out to become a citizen scientist herself In search of vanishing species she wades

into tide pools follows hawks and scours mountains The data she collects will help environmental research but her most precious discovery might be her fellow citizen scientists a heroic cast of volunteers devoting long hours to helping scientists measure and even slow today's unprecedented mass extinction A consummate reporter Hannibal digs into the origins of the tech savvy citizen science movement tracing it back through centuries of amateur observation by writers and naturalists Prompted by her novelist father's sudden death she also examines her own past and discovers a family legacy of looking closely at the world Her personal loss only fuels her quest to bear witness to life and so she ultimately returns her gaze to the wealth of species still left to fight for Combining research and memoir in impassioned prose Citizen Scientist is a literary event a blueprint for action and the story of how one woman rescues herself from an odyssey of loss with a new kind of science

Handbook of Citizen Science in Ecology and Conservation Christopher Andrew Lepczyk, Owen D. Boyle, Timothy L. 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

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 Science: Is It Worth Your Time? Michael Chadwick Smith, 2015 This dissertation investigated citizen science a tool that connects the public to the scientific community through research based projects and education campaigns Benefits include volunteers adding data to long term data sets and improved scientific literacy among the public Oftentimes there is trepidation among scientists managers and decision makers when it comes to citizen science These concerns include the integrity of volunteer data and whether citizen science projects are promoting scientific literacy To investigate these concerns this dissertation focused on three major areas 1 the integrity of long term water quality data

produced by volunteers of the Albemarle Pamlico National Estuary Partnership's Citizens Monitoring Network (APNEP CMN) when compared to acquired water quality data from government projects. 2 using cultural consensus theory to estimate cultural beliefs of water quality among different cultural groups: citizen science volunteers that focused on water quality monitoring; water quality professionals; water quality educators; fishers; and individuals with no experience in water quality. and 3 application of social theories, education tools, and communication models to improve the design and implementation of education campaigns. Results suggested 1 significant differences ( $P$  value 0.05) in water quality data for most variables: water temperature, water depth, secchi depth, dissolved oxygen, pH, and salinity among monitoring sites within a similar region (lower, middle, or upper) and the same season (fall, spring, summer, or winter) in the Tar-Pamlico and Albemarle regions. These results were not in support of my first hypothesis, which stated that water quality data among monitoring sites within the same region will produce similar results ( $P$  value 0.05), although significant differences ( $P$  value 0.05) were expected for dissolved oxygen and salinity due to more involved measuring protocols. The only exception was the 1991-1993 block of the Albemarle region. My second hypothesis stated that APNEP CMN volunteers with monitoring sites in close proximity to one another will produce similar water quality data ( $P$  value 0.05); results were not in support of this hypothesis. Differences among volunteer and government data were perhaps a result of different monitoring equipment, geographic location, local precipitation, and volunteer training protocols. 2 Results from the cultural consensus analysis suggested there was agreement within and across the cultural groups after surveying 285 respondents on a variety of water quality topics. Volunteers of citizen science and water quality educators had the strongest consensus within their groups, while water quality professionals had the least. Mean cultural competencies were also greater among volunteers and educators. No significant differences were found among the mean cultural competencies between the groups; the only exception was among educators and individuals with no experience in water quality. Results suggested that volunteers may be receiving their information primarily from educators who are commonly involved with citizen science projects. Discrepancies among the other groups may have been associated with differences in education and professional backgrounds in water quality. There was 92 percent accordance among the cultural groups and survey statements. Eight percent discordance was observed for the following survey topics: a) time of day, b) water quality appearance, c) pH, and d) storm events. Overall, it remains unclear whether citizen science is promoting scientific literacy based on these results. Improved volunteer training and education campaigns were mentioned as recommendations to strengthen the integrity of volunteer data and knowledge of water quality. 3 These recommendations introduced the third area of this dissertation, which focused on the application of social theories, education tools, and communication models found in the primary literature to improve education campaigns. Successful campaigns are dependent on the careful framework of planning, implementation, and evaluation; each of these framework components were discussed. The potential for citizen science to change how the public perceives water quality and other environmental issues continues.

to grow With increasing human population and the continued strain on our natural resources it is imperative that educators and scientists begin to ruminate how citizen science might benefit their community

**The Incidental Steward** Akiko Busch,2013-04-22 DIV A search for a radio tagged Indiana bat roosting in the woods behind her house in New York s Hudson Valley led Akiko Busch to assorted other encounters with the natural world local ecological monitoring projects community organized cleanup efforts and data driven citizen science research Whether it is pulling up water chestnuts in the Hudson River measuring beds of submerged aquatic vegetation or searching out vernal pools all are efforts that illuminate the role of ordinary citizens as stewards of place In this elegantly written book Busch highlights factors that distinguish twenty first century citizen scientists from traditional amateur naturalists a greater sense of urgency helpful new technologies and the expanded possibilities of crowdsourcing The observations here look both to precisely recorded data sheets and to the impressionistic marginalia scribbled asides and side roads that often attend such unpredictable outings While not a primer on the prescribed protocols of citizen science the book combines vivid natural history a deep sense of place and reflection about our changing world Musing on the expanding potential of citizen science the author celebrates today s renewed volunteerism and the opportunities it offers for regaining a deep sense of connection to place div

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

**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

**Science by the People** Aya H. Kimura, Abby Kinchy, 2019-09-13 Longlisted for the Fleck Prize from the Society for Social Studies of Science 4S Citizen science research involving nonprofessionals in the research process has attracted both strong enthusiasts and detractors Many environmental professionals activists and scholars consider citizen science part of their toolkit for addressing environmental challenges Critics however contend that it represents a corporate takeover of scientific priorities In this timely book two sociologists move beyond this binary debate by analyzing the tensions and dilemmas that citizen science projects commonly face Key lessons are drawn from case studies where citizen scientists have investigated the impact of shale oil and gas nuclear power and genetically engineered crops These studies show that diverse citizen science projects face shared dilemmas relating to austerity pressures presumed boundaries between science and activism and difficulties moving between scales of environmental problems 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

**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

The Top Books of the Year Citizen Science The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Citizen Science : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Citizen Science : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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