#CitSciOz23 Workshops & Excursions ☀ Monday 20 November 2023

Time	Auditorium	Lecture Theatre 8 (LT8) then outdoors	Lecture Theatre 8 (LT8)	Innovation Centre Foyer	CAVE4 Visualisation space	Outdoors
9-10am	**Randy Orwin:** **Tech in the field (Moving between the auditorium and outdoors)**	**Dion Dior:** **The Art and Practice of Keeping a Field Journal for Citizen Science Participation**				**Sam Van Holsbeeck (bushland):** **NOBURN: Bushfire research through citizen science (end time around 10:30am)**
10-11am				**Michelle Neil:** **Social Media 101**		
11am-12pm			**Cancelled** ~~Hamish Robertson:~~ ~~Developing a Working Group for Citizen Science and Human Health~~			
12-1pm						
1-2pm	**Alex Lum:** **Connecting Wikipedia, iNaturalist and the world of biodiversity knowledge**					
2-3pm		**Dion Dior:** **The Art and Practice of Keeping a Field Journal for Citizen Science Participation**		**Michelle Neil:** **Social Media 101**	**Vikki Schaffer:** **Technology immersed citizen science**	
3-4pm						
4-5pm			**Sylvia Clarke:** **Harmonising and Powering Community Water Monitoring Across Australia**			
5-6pm						
6-7pm						**6:15pm for 6:30pm start** **Nadiah Roslan (frog habitat):** **Frog calls for conservation**
7-8pm						

Map of locations

Lecture Theatre 8

Innovation Centre

Main entrance

The Innovation Centre and **Lecture Theatre 8**, UniSC
Sunshine Coast, 90 Sippy Downs Drive, Sippy Downs

Tech in the Field

Randy Orwin

9am to 12pm - Beginning in the Innovation
Centre auditorium then outdoors

Registration link   Cost: $22

This workshop will be all about using various technologies in the field. Mobile phones, GPS units, hand lenses, DSLRs and various apps. Given iNaturalist is so popular and is now tied to the ALA, we will spend time looking at the basics of iNat and diving into some of the more advanced features of the app, both on mobile and on the desktop. For those that use a DSLR in the field, we will walk you through the process of bulk updating the metadata of your photos to include GPS information. Bring your phone, DSLR, laptop and an eagerness to learn. Part of our time will be spent in the field and part will be spent in the lab working with software on your devices.

About Randy Orwin:
Randy has been involved in the tech field for over 25 years and has been involved in citizen science for over 20 years. He taught biology and advanced environmental science to high school students, using a very hands on approach. He learned everything he knows about macroinvertibrates through his love of fly fishing. He is a past president of Cooloola Coastcare and has been heavily involved with the management of the very popular, Cooloola Bioblitzes.

Connecting Wikipedia, iNaturalist and the world of biodiversity knowledge

Alex Lum

1pm-4pm - Innovation Centre Auditorium

<u>Registration link</u>   Cost: FREE

This workshop will introduce Wikipedia, Wiki Commons and Wikidata, and how YOU can contribute facts, photos and data to the world's largest collaborative knowledge base. Learn how iNaturalist and Wiki platforms connect through integration of species data and observations.

Wikipedia editors can reference and cite iNaturalist observations and range maps as a source of information when writing articles about specific species, habitats, or ecosystems. Wikimedia Commons has a gadget that integrates with iNaturalist APIs to allow for the transfer of openly-licensed images, making it easy for editors to quickly bring Wikipedia articles to life. Wikidata seeks to connect every taxon in every biological database, and every geographic location, these connections can be exploited directly from iNaturalist using tools such as Entity Explosion.

Join us in this practical workshop and find out how this collaborative effort between iNaturalist and Wiki enhances the depth and breadth of information available on both platforms, benefiting users interested in learning about and contributing to our understanding of the natural world.

[Wikipedia is a collaborative online encyclopedia, Wikimedia Commons is a media repository, and Wikidata is a structured data repository, all collectively contributing to the free and openly licensed dissemination of knowledge and media resources.]

Please bring a laptop.

About the presenters:

Alex Lum has been an editor on Wikipedia since 2005, an administrator on the English Wikipedia since 2008, and a prolific contributor to Wikidata and OpenStreetMap. He has a background in computer science and data analytics, and is currently working in statistics, data science and visualisation in the higher education sector.

Toby Hudson is a Sesqui Associate Professor in the School of Chemistry at the University of Sydney. He is currently the Academic Leader of the Science Dalyell Stream, and the Associate Head (Education) of the School of Chemistry. His research interests span materials chemistry simulation, search & optimisation, and educational technology. He has been involved in Wikimedia projects since 2004, especially Wikidata, Commons, and the English Wikipedia. He is involved in numerous projects connecting and curating Australian and scientific databases. He developed Entity Explosion, a web browser extension with over 1000 weekly users for Wikidata engagement.

Amanda Lawrence (President of Wikimedia Australia) is a research fellow at RMIT University and has also worked as a librarian and project manager in the public policy and GLAM sectors. She is interested in furthering the open research and knowledge commons movements as well as contributing to Wikipedia content editing and community engagement.

Harmonising and Powering Community Water Monitoring Across Australia

Sylvia Clarke

4pm-6pm - Lecture Theatre 8

<u>Registration link</u>   Cost: FREE

Waterwatch and Streamwatch began in the 1990s. When national funding ceased, some regional projects continued and improved over time across Australia. Nonetheless, projects have commonly suffered from limited and sporadic resourcing from state and territory agencies, local Councils or non-government organisations. This has caused fluctuations of programs' abilities to deliver citizen science to the community, capture data, and make information accessible to everyone.

Historical and ongoing information about the water availability and quality is needed to assess catchment health and mitigate adverse impacts in the face of increasing climate change and human population growth and development into the future.

During this Workshop we aim to discuss;
- How Waterwatch programs currently fit with FAIR - (Findable, Accessible, Interoperable and Reproducible) data principles through a comparison of current databases and their uses, data integration with state and national data repositories, and data interpretation and visualisation.

- What works well or represents barriers for current projects in terms of: ensuring data quality, engaging communities, improving water literacy, informing water policy, inspiring on-ground action and building partnership with First Nations groups and government agencies.
- How to connect other catchment related networks and projects with the National Waterwatch Network.

Additionally, we will explore how to re-establish a collaborative a nationally harmonised and long term citizen science water quality monitoring program, to advocate for federal and state governments to fund the program.

We are confident that a synthesis of the well-tested Streamwatch and Waterwatch methodologies allied to harmonised and FAIR data collection, will offer a robust and long-term approach to place-based data gathering.

This could also be an exemplar of how the UNESCO Open Science Recommendation action areas can be used as a framework for "Opening science to society".

About Sylvia Clarke:
Sylvia Clarke is the coordinator of Waterwatch SA, and has been part of the National Waterwatch network since she met others involved in Waterwatch programs from across Australia at the ACSA Conference in Canberra in 2015. Other members of the National Waterwatch Network will present on their experiences and as a group we will discuss our needs and wishes for the future of Waterwatch in Australia. Libby Hepburn and Jessie Oliver from ACSA will also be involved.

The Art and Practice of Keeping a Field Journal for Citizen Science Participation

Dion Dior

9am-12pm and 2pm-5pm - Lecture Theatre 8

Registration link   Cost: $50

Citizen science involves individuals contributing to scientific research through observations and data collection. Currently, participants are only encouraged to upload observations to iNaturalist, but by recording their findings and experiences in a field journal, participants not only collect and contribute valuable and detailed information that can be used for scientific outcomes, they also build an indelible record of their own experiences in the field. Keeping a field journal is a powerful way for ordinary citizens to actively and perpetually contribute to their own, and our collective understanding of the natural world.

Field journaling is a multidimensional scientific practice that combines science, art and personal inquiry. Recording information by hand through words, pictures and data provides a wide-range forum for ongoing citizen science participation. Participants benefit from reflecting on how an increased emphasis on quantified observations, latin names, scientific rigour, ecological connections, and phenological patterns make their work more useful to Citizen Science outcomes. Field journaling is also a powerful way for participants to enhance their understanding and build a personal record of their experience as a Citizen Scientist.

In this workshop participants will learn the fundamentals of how to keep a field journal for citizen science participation. They will explore the importance of metadata logging, project objectives, field notation, observation and recording, and the necessity of developing inquiry through personal narrative, observational sketching, and data collection.

The first part of this workshop will be held in a classroom where participations will learn how to apply CitSci project objectives to field journaling; how to log important metadata, develop observational sketches and capture visual information, and how to collect useful field data for Citizen Science outcomes.

They will also learn about the importance of personal narrative and questioning. The second part of this workshop will take participants into the field to put into practice their skills for keeping a field journal.

Participants will need to provide their own journal and pens/pencils.

About Dion Dior:
Dion Dior is a keen amateur naturalist, sessional instructor, field guide, natural science illustrator and practiced field journaler. She is a sessional instructor, teaching field journaling technique, naturalist field studies, observational sketching and visual notation for the University of the Sunshine Coast. She is an in-demand workshop instructor for the Sunshine Coast Council, Mooloola River Landcare, Noosa Environment Education Hub and the Cooloola Coastcare Association. Dion is also the founder of the Noosa & Sunshine Coast Nature Journal Club and is an active Citizen Scientist.

Due to a lack of registrations, we are no longer running this workshop on Monday 20 November. However, if you have an interest in citizen science and human health, please get in touch with ACSA via our website, and we will organise a future event.

Developing a Working Group for Citizen Science and Human Health

Hamish Robertson

11am-2pm - Lecture Theatre 8

Registration link   Cost: FREE

We aim to explore whether there is an appetite among the Australian Citizen Science Association (ACSA) community to launch an ACSA working group focused on the intersections of human health and citizen science. This workshop will explore the focus and priorities of such a working group including topics identified by attendees. The workshop will provide some background to the issue and offer opportunities to discuss perspectives and build an agenda for developmental work. We anticipate that this workshop will bring together people with similar human health interests and support the strategic growth of human health citizen science in Australia.

About Hamish Robertson:
Hamish Robertson is an ACSA and ECSA member currently working in the Faculty of Health at the Queensland University of Technology. His colleagues A/Prof Nimish Biloria from UTS and Jessie Oliver from ACSA will participate in the workshop.

About Dr Nimish Biloria:
Dr. Nimish Biloria is an architect and emergent technologies and design specialist, with over 15 years of experience in the emergent technologies and transdisciplinary innovation sectors across Europe, Asia, and Australia. After spending ten years of his academic career at Delft University of Technology (TU Delft), the Netherlands, he is currently working at the University of Technology Sydney (UTS). He works in the area of Empathic Environments, which involves the study of human-environment-interaction.

Social Media 101

Michelle Neil

10am-12pm and 2pm-4pm - Innovation Centre
Foyer

Registration link   Cost: FREE

Elevate Your Citizen Science Engagement with Social Media 101

Are you a citizen science enthusiast looking to amplify your impact and connect with a wider audience? Join our empowering workshop designed specifically for citizen science practitioners and discover the digital tools and strategies to take your projects to the next level.
In this workshop, you will:

📌 Master Account Tagging: Learn the art of tagging accounts to engage like-minded individuals, organizations, and supporters in your citizen science initiatives, creating a vibrant online community.

⏰ Optimize Scheduling for Success: Maximize your efficiency by using scheduling tools to plan and automate your social media content, allowing you to focus more on your important research and data collection.

🧐 Responsible Post Moderation: Ensure a safe and constructive online environment for your community through expert moderation techniques that foster positive conversations around your citizen science work.

🌐 Multi-Platform Proficiency: Explore the diverse landscape of social media platforms, including Facebook, Instagram, LinkedIn, Twitter/X, and YouTube, to tailor your outreach strategies for different audiences and objectives.

🎨 Harness Canva Creativity: Dive into the world of Canva and uncover how to design captivating visuals and graphics that effectively communicate your citizen science projects to a broader audience.

Whether you're a wildlife tracker, biodiversity advocate, or environmental researcher, this workshop is your gateway to expanding your reach, and engage with potential and current citizen scientists. By mastering social media, you'll bring your citizen science initiatives to a wider audience, igniting curiosity and rallying support.

About Michelle Neil:

In 2011 Michelle's young son presented her with a spider. A redback spider. After convincing her son not to pick up spiders but to take pictures of them instead Michelle soon found she had over 7000 photos of all sorts of creatures and no idea what any of them were called. Thus a citizen scientist is made. In May 2014, Michelle was invited by Earthwatch to attend the inaugural Australian Citizen Science Association workshop in Brisbane. She found herself co-chair of the Communications Working Group. Michelle and Jessie Oliver co-developed ACSA social media (Twitter, Facebook, & LinkedIn). Since then Michelle, with her orange-coloured iPad clutched firmly in one hand, has been an active social media moderator, poster and tweeter for the ACSA social media platforms. Having worked in analytical chemistry for over a decade Michelle finds herself in an interesting place – a scientist as well as a citizen scientist, with a passion for science communication.

Technology immersed citizen science

Vikki Schaffer

2pm-4pm - CAVE4 Visualisation Space

Registration link   Cost: FREE

Bring your curiosity and enthusiasm and connect with like-minded individuals, and researchers to expand your knowledge and share your ideas to increase the inclusivity in citizen science participation. During the 1-hour workshop you will explore the real and virtual environments in the UniSC visualisation lab, undertake species identification and explore how technology can increase diverse participation.
You are invited to explore environments such as the ex-HMAS Brisbane Conservation Park using innovative approaches to advance inclusive experience design on Monday 20th November 2023, from 2:00 pm - 4:00 pm AEST.

Please meet at the UniSC Innovation Centre, and you will be escorted to the UniSC visualisation lab or meet the workshop host at the lab to be held in H2G.15/16.

About Vikki Schaffer:
Vikki Schaffer is a researcher with a passion for co-creating immersive, inclusive experiences using technology to increase our understanding of, and connection to, the amazing world we live in.

Snap a pic, help predict!
Download the NOBURN app today.

NOBURN: Bushfire research through citizen science

Sam Van Holsbeeck

9am-10:30am - Outdoors. Meet outside the Innovation Centre

<u>Registration link</u>   Cost: FREE

NOBURN is an exciting national citizen science project that is helping us learn more about what is driving bushfires so we can predict these factors. Around the country, NOBURN allows everyone who wants to, to record evidence of possible forest danger with nothing more than a smartphone. During this half-day workshop, you will:

1. Be introduced to the citizen science project by the research team;
2. Be given a brief demo and instructions on how to use the app;
3. Collect forest fuel data using the NOBURN app; and
4. Validate and discuss the findings with the research team and fire practitioners.

About Sam Van Holsbeeck:
As a Postdoctoral Research Fellow at the UniSC Forest Research Institute, Dr Sam Van Holsbeeck strives to deliver applied forest research to benefit communities and industry. Sam is a University of the Sunshine Coast PhD graduate in Forestry Studies and also holds a Master's degree in Bio-Science Engineering from Ghent University. His areas of expertise are forest biomass utilisation, multi-disciplinary bushfire research through citizen science, and forest pest and disease management.

Frog calls for conservation: an introduction to the national FrogID project and how you can get involved

Nadiah Roslan
6:15pm for 6:30pm start - Frog habitat (see registration link for details)

<u>Registration link</u>   Cost: FREE

Australia boasts 249 native species of frog, many of which are threatened with extinction. Despite the urgency of frog conservation, a key challenge is the lack of knowledge that scientists and land-managers have about where frogs are and how they are doing. One way that people across Australia are helping address this huge knowledge gap is by utilising the Australian Museum's free FrogID app to record frog calls.
As part of the Australian Citizen Science Association Conference (#CitSciOz23), this event will showcase FrogID's objectives and its incredible achievements thanks to the help of thousands of FrogID community participants. Learn how FrogID data aids national frog research and conservation, from fire and drought responses to uncovering new species. Discover how you can join this citizen science initiative and make a real difference in national biodiversity conservation.

This event is free but spaces are limited; registration is essential.

About Nadiah Roslan:
Nadiah Roslan is the FrogID Project Coordinator at the Australian Museum.

Nadiah completed a Bachelor of Science in Zoology at the Australian National University, and a Master of Science in Tropical Marine Ecology at James Cook University. Nadiah has experience in coordinating projects on climate change biology and citizen science for the research and not-for-profit sector. Since joining the Australian Museum Research Institute in 2020, Nadiah has worked as the Project Coordinator of FrogID - a national citizen science project that is informing frog conservation by recording their calls with the FrogID app.