Citizen Science at your Academic Library: Ideas and Inspirations.

Thursday, 27th of April 2023

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Citizen Science at your Academic Library:

Ideas and Inspirations.

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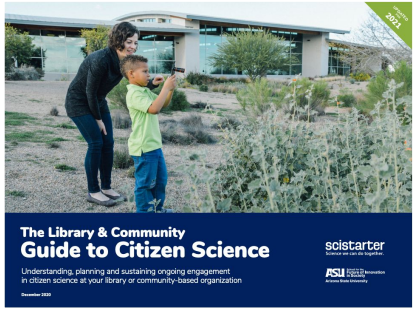

https://scistarter.org/library-resources

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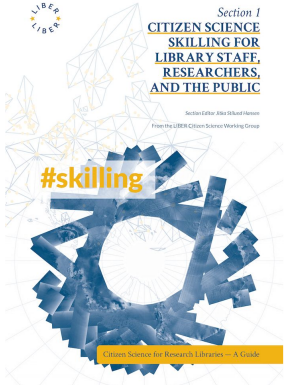
LIBER Citizen Science Working group



https://libereurope.eu/working-group/liber-citizen-science-working-group/citizen-science-guide/

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Citizen Science at your Academic Library:

Ideas and Inspirations.

A partnership with:

KU LEUVEN LIBRARIES

université de BORDEAUX

URFIST bordeaux

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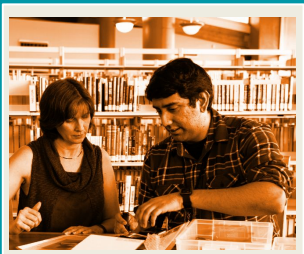
Ideas and Inspirations.



Our moderator:

Tara Cox

National Girls Collaborative Project, National Citizen and Community Science Library Network director

CITIZE
SCIENC
MONTH

Citizen Science at your Academic Library:

Ideas and Inspirations.

Citizen Science at your Academic Library: Ideas and Inspirations.

Citizen Science at your Academic Library:

Ideas and Inspirations.

Our three lecturers:

KT Vaughan

Washington and Lee University (USA)

Dominic Tate

University of Edinburgh (UK)

Raphaëlle Bats

University of Bordeaux (France)

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Welcome to

KT Vaughan

Washington and Lee University (USA)

URFIST bordeaux

Citizen Science at your Academic Library:

Ideas and Inspirations.

DCI295c: Crowdsourcing on the Internet
Washington & Lee University

- Small, liberal arts college in rural Virginia, USA
- Approximately 2000 undergraduate students, 200 graduate students

University Library

- 22 full-time faculty librarians and staff
- Approximately 600,000 print volumes, 1 million e-volumes
- Approximately 240,000 visits in 2021-2022

Citizen Science at your Academic Library:

Ideas and Inspirations.

DCI295c: Crowdsourcing on the Internet Digital Culture and Information Minor Degree Program

https://my.wlu.edu/digital-culture-and-information

A minor in Digital Culture and Information (DCI) allows students to deeply explore how the digital age impacts knowledge and society.

A minor in Digital Culture and Information provides the foundation for a career in any field and for life as an informed citizen in a digital society.

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Citizen Science at your Academic Library:

Ideas and Inspirations.

DCI295c: Crowdsourcing on the Internet Course Overview

Crowdsourcing has become a major part of academic and corporate research across disciplines in the sciences and humanities.

“Citizen science” and “citizen archivist” online programs allow non-experts opportunities to participate in research in new and surprising ways.

Citizen Science at your Academic Library:

Ideas and Inspirations.

DCI295c: Crowdsourcing on the Internet Course Details

- Special topics in Digital Culture & Information
- Spring term 2023: 3 credits in 4 weeks, 4 days/per week
- 16 undergraduate students
- Laptop intensive seminar-style course

Citizen Science at your Academic Library:

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DCI295c: Crowdsourcing on the Internet
Citizen Science Module

- Foundations of Citizen Science - SciStarter training module
- Class discussion
- Class exploration of Killer Whale Count and Notes from Nature
- Reflection exercise
- iNaturalist discussion and exploration
- Attendance at this webinar!

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DCI295c: Crowdsourcing on the Internet
Additional Citizen Science Connections

- Historical examples of crowdsourcing discussion
- Class crowdsourced list of projects
- Project reviews: student-selected projects, including in citizen science
- Extra credit: Data Ethics - SciStarter training module
- “When Good Crowdsourcing Goes Bad”
- Final paper/presentation

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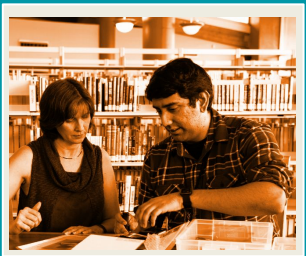
Ideas and Inspirations.

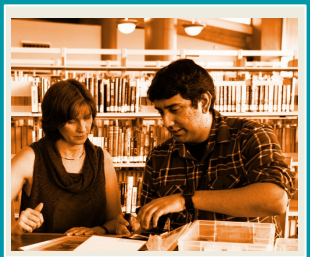


DCI295c: Crowdsourcing on the Internet

A minor in Digital Culture and Information (DCI) allows students to deeply explore how the digital age impacts knowledge and society.

Credit: Eleetcanoe, Wikimedia Commons, https://commons.wikimedia.org/wiki/File:Eastern_gray_squirrel_looking_at_camera.jpg

Questions to KT Vaughan



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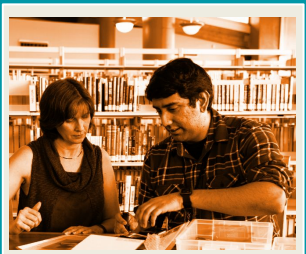

Welcome to

Dominic Tate

University of Edinburgh (UK)

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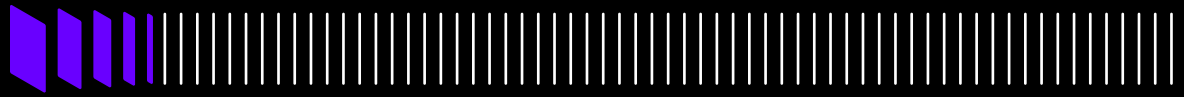
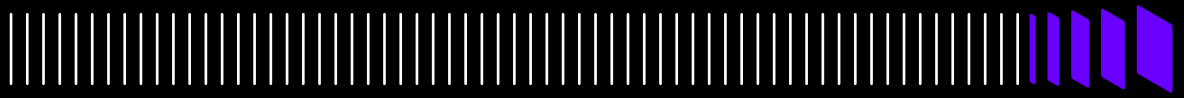
Library Investment in Citizen Science

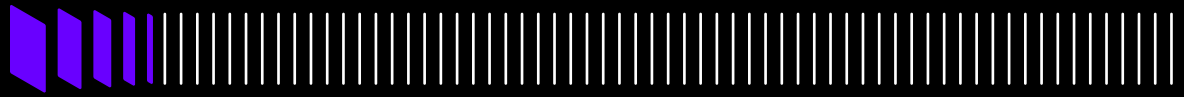
27 April 2023

Dominic Tate
Deputy Director
Library & University Collections
University of Edinburgh

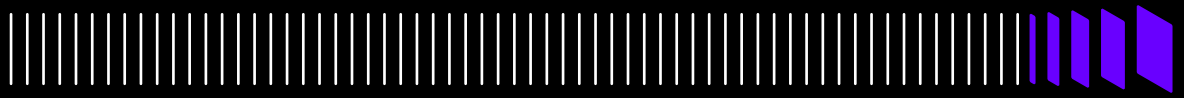


The Library helps people to grow their knowledge and create new connections through open services, collections and environments, sparking ideas that change the world.





The Library’s Research Support Team enables the University’s transition to Open Research.



Open Research Roadmap

Edinburgh Open Research

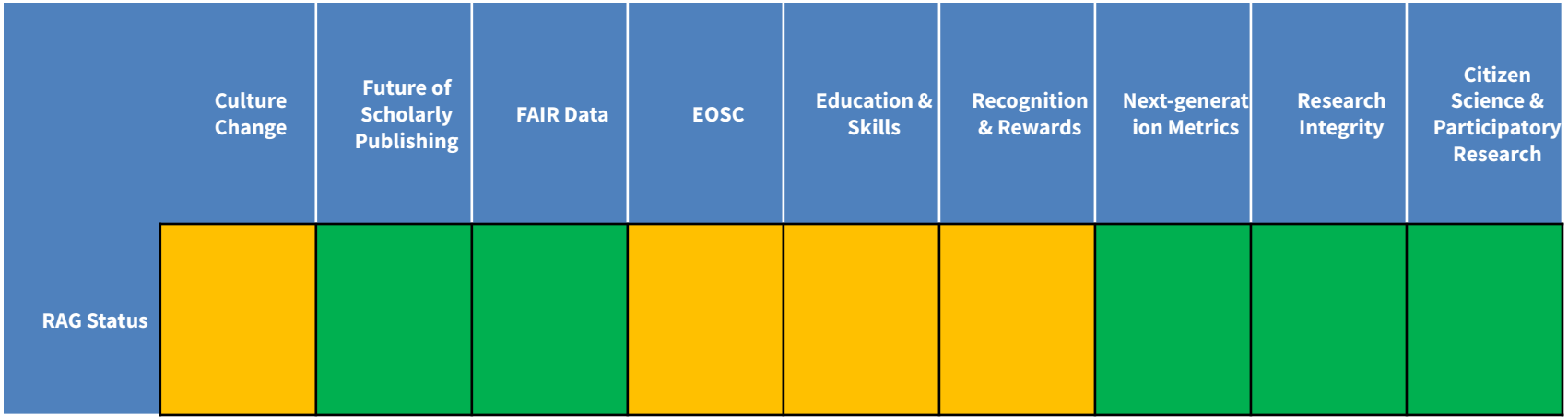
Roadmap for Open Science – University of Edinburgh Self-Assessment January 2022

The following table contains a self-assessment on the University of Edinburgh's readiness for Open Research, based on the 37 criteria set out in the LERU Open Science Roadmap. This self-assessment has been carried out by staff in the Library Research Support (LRS) Team. This is a working document and we would welcome the views on the accuracy of the self-assessment and the recommendations made.

	Topic	Question	Assessment of progress	Proposed next steps	RAG Status
Cultural change					
1.	**Leadership**	Has your university appointed a senior manager to lead Open Science approaches across all eight pillars of the Open Science debate identified by the European Commission?	Dominic Tate (Head of Library Research Support) has been acting in the role of LERU Open Science Ambassador (OSA) but Dr. William Cawthorn (Lecturer, Centre for Cardiovascular Science, CMVM) has now taken on this role. Dominic Tate will continue to lead on Open Research for the Library. A number of other senior researchers have taken very active roles in areas of Open Science, including Andrew Millar, Malcolm McLeod (via the UK Reproducibility Network) and Emily Sena. In addition, as part of the recent REF submission, various School and Centres have identified a senior academic with a remit for open science. Grassroots networks of Open Research champions have emerged, such as the Edinburgh Open Research Initiative (EORI: @edinburgh_open, https://edopenresearch.com/) and ReproducibiliTea sessions, organised by interested postgraduate groups.	Schools and Colleges should consider engaging Open Research Champions at a local level The Open Research Co-Ordinator will create a network of Open Research champions from across the University. These will primarily be senior academics who have a responsibility for Open Research in their School, and school or college Research Support Staff who have a direct role in promoting and supporting Open Research. This network will work together to ensure coordinated action in designing and implementing strategies for advancing the University's progress on the eight pillars. Dr. Cawthorn will Chair this network as part of his LERU Open Science Ambassador role. The Open Research Co-Ordinator will also identify any other researcher led Open Research work going on within the University. Once identified the Library will offer support to these groups as well as encouraging them to work	

Edinburgh Open Research

The Nine Pillars of Open Research



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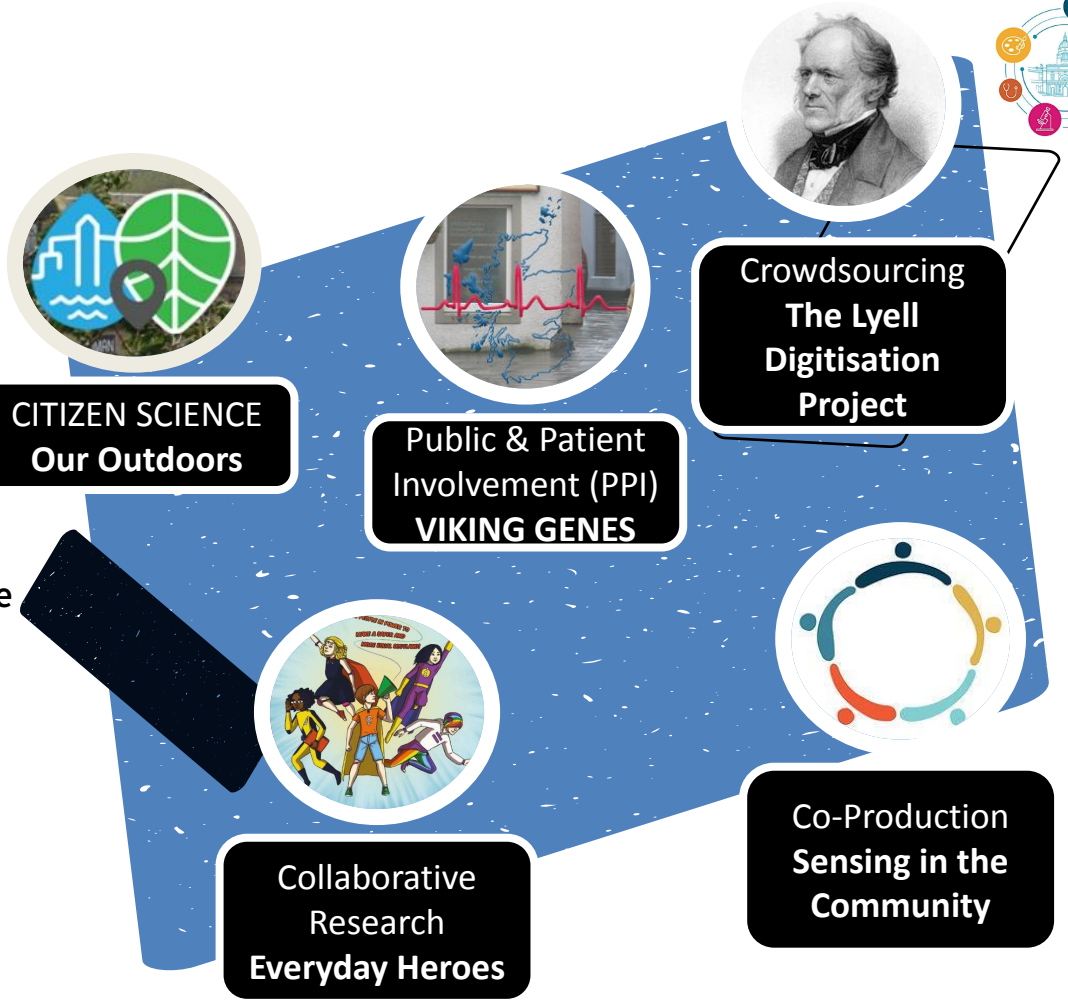
Edinburgh Open Research

Participatory Research

An umbrella term encompassing research approaches with the same value: sharing control.

- **Participation at *any* stage of the research cycle**
- **Can have low- or high-levels of participation**



WHY is Citizen Science Important?

- Academic libraries are behind the curve - public libraries, galleries and museums have been leading with this for years.
- Universities need to get out of their ivory towers: public distrust in academia is high, as demonstrated during the pandemic.
- Libraries have so much to offer: collections, spaces and services. We may also have existing relationships with community groups.
- Support for Citizen Science is an obvious missing piece in our portfolio for services.
- Supporting Citizen Science plays well to librarians skills in supporting research and teaching, customer service, sharing knowledge and engaging communities.

University of Edinburgh's Approach

- Appointment of one Library Citizen Science Engagement Officer on a full-time, open-ended contract.
- Role is to understand how the library can support Citizen Science across the University, with a particular regard to collections, spaces and services.
- Make recommendations to Senior Management Team.
- Promote Citizen Science and Participatory Research to academics across the University.
- Develop a work plan and service catalogue.
- Support the strategic theme of *Social & Civic Responsibility* in the University's Strategy 2030.

Edinburgh Open Research

Service Objectives

1. **Identify creative ways to use pre-existing resources to address the challenges of participatory research**
2. **Develop new services to address the challenges of participatory research**
3. **Raise awareness and support the adoption of PR in engagement and research (when appropriate!)**

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Questions to Dominic Tate

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Ideas and Inspirations.

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Citizen Science at your Academic Library:

Ideas and Inspirations.

Welcome to

Raphaëlle Bats

Urfist de Bordeaux
University of Bordeaux (France)

URFIST bordeaux

Pollinators (Pollinating Insects) at the Library!

Citizen Science at your Academic Library:

Ideas and Inspirations.

Citizen Science at your Academic Library:

Ideas and Inspirations.

The Program Spipoll

- **S**uivi **P**hotographique des **I**nsectes **Pol**linisateurs
- National program, since 2010 : Museum National d'Histoire Naturelle and Vigie Nature

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The Program Spipoll

- Data collection by citizen scientists

Citizen Science at your Academic Library:

Ideas and Inspirations.

SPIPOLL

Citizen Science at your Academic Library:

Ideas and Inspirations.

The Program Spipoll in Bordeaux

- Lack of data in Bordeaux and around.
- 2022, the lab Biogeco (University of Bordeaux and INRAE) gained funds to organize a Spipoll Campaign on our territory.
- They have hired a scientific animator, Samantha Février, to spread information about Spipoll and find new participants, help them to use the platform, disseminate the results, etc.

Citizen Science at your Academic Library:

Ideas and Inspirations.

“La Fête de la science”

- National topic 2022 : the climate change
- “Circuit scientifique bordelais” : organized by the University of Bordeaux to reach out schools during the “Fête de la science”.
- Contact with the academic library to install an exhibition: Delphine Lemeunier and Claire-Lise Gauvain
- Contact with Urfist of Bordeaux, already committed to citizen science: Raphaëlle Bats and François Godin

Citizen Science at your Academic Library:

Ideas and Inspirations.

A collaborative work:

- Co-design of a knowledge pathway about citizen science, pollinators, history of biology and Spipoll, through exhibition, workshops, meetings.

Expertises:

- Librarians : location/space, documentation, cultural heritage
- Urfist : citizen science and scientific communication and mediation
- Labs : Ecology, Pollinators, Spipoll

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Citizen Science at your Academic Library:

Ideas and Inspirations.

SPIPOLL

The Exhibition

- 7 kakemonos, 5 posters A2, 2 posters A3, 1 insect hotel

- To make people willing to participate in Spipoll or in other programs
- Understand the issues of the Spipoll program
- Learn about pollinating insects

Animation : Raphaëlle Bats

Citizen Science at your Academic Library:

Ideas and Inspirations.

Spipoll Workshop

- Practice on the computer to identify the different insects
- Better understanding of the different species of insects
- Discovery of the platform: learning to participate

Animation : Samantha Février

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Citizen Science at your Academic Library:

Ideas and Inspirations.

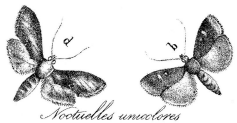


Planche extraite de : **Berger-Perrière, J. Aug.**, *Introduction à l'histoire naturelle des insectes ... suivie d'une méthode de classification des Lépidoptères (Papillons) de France ... qui se trouvent aux environs de Bordeaux...* Bordeaux : Faye ; Laffite ; Lawalle, 1824. Université de Bordeaux. Cote : PR 32144. Babordnum. http://www.babordnum.fr/items/show/369

babordnum.fr est la bibliothèque numérique patrimoniale du réseau documentaire des universités de Bordeaux

Cultural Heritage Workshop

- Selection of books with insect and flower images
- Provision of copies for coloring
- Discover the history of biology + Discover the cultural heritage collections

Animation : Claire-Lise Gauvain

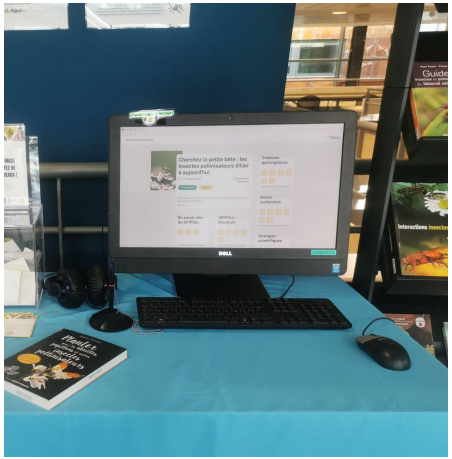
Citizen Science at your Academic Library:

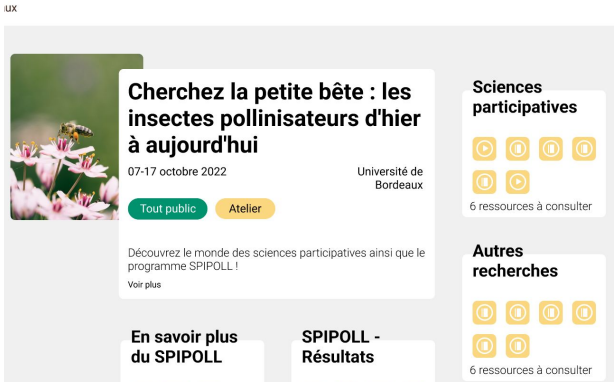
Ideas and Inspirations.

The documentary selection

- A physical presentation table
- A digital presentation table: using the Kronikle tool
- Selection of papers, data, external resources, etc.

Animation : Delphine Le Meunier





Citizen Science at your Academic Library:

Ideas and Inspirations.

The journey booklet

- To accompany school and non-school visits
- With questions / riddles
- Possibility to participate in a contest (gain : books and seeds)

Atelier **Présentation d'ouvrages anciens sur les insectes :**

Question : Cherchez les petites bêtes, combien en comptez-vous ?

.....

Citizen Science at your Academic Library:

Ideas and Inspirations.

Visitors

Visits (workshops, meetings): 69 people

- School visit: 1 class: 22 school students (around 13 years old) with their 2 teachers

No accounting of the visits of the exhibition done outside of the workshops

Citizen Science at your Academic Library:

Ideas and Inspirations.

What's Next?

- Exhibition is printed and resusable
- Workshops and notebook easy to reproduce
- Kronikle : new version, still usable

We could imagine to make this exhibition-workshop itinerant.

- Exhibition is ready to be installed in another library >>> public library of St Médard en Jalles (may-june 2023)
- Bridge between labs, academic library and public library

Citizen Science at your Academic Library:

Ideas and Inspirations.

Conclusion: What does the academic library bring to this project?

- **A place** of passage, a place of knowledge,a public place, a meeting place **between the university and society**.
- **A link between yesterday and today**, through documentary expertise: from heritage to the most recent research
- **A stage for the promotion of research:** by making documents available, by organizing events, by the presence of a lab in the library, etc.

Thank you!

Citizen Science at your Academic Library:

Ideas and Inspirations.

Questions to Raphaëlle Bats

Citizen Science at your Academic Library:

Ideas and Inspirations.

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Round-Table
Questions to each other

Citizen Science at your Academic Library:

Ideas and Inspirations.

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Questions to:

all the lecturers

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Ideas and Inspirations.

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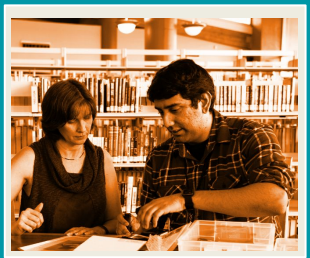
Let’s talk about you
Citizen Science at your library
The showroom !



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Ideas and Inspirations.

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Showroom

Paul Ayris	**UCL**
Til Mlakar	**CTK**
Stefan Wiederkehr	**Zentralbibliothek Zürich**
Gintare Tautkeviciene	**Kaunas university of technology**
Dolores Mumelaš	**National and University Library in Zagreb**

Citizen Science certification

Paul AYRIS - UCL

- What? To oversee a certification process for Citizen Science, working with one London Borough
- Why? To engage with the local community, thereby developing further outreach activity in London
- Results: Joint activity between London citizens and the university; broadening expectations to encourage people to apply to university; skills development among the target community
- What NEXT? First certificates about to be issued; plan to scale up approach to embrace other London boroughs

Citizen Science Platform + Infrastructure

Til MLAKAR
Universe v Ljubljani

WHAT is my action?

_ observatorium for CITIZEN SCIENCE in Slovenia. (www.citizenscience.si)

_ infrastructure for CITIZEN SCIENCE.

WHY and for what purpose?

_ to share knowledge of everything about CS (projects, events, news, ..).

_to engage people to start to join to become citizenscientists.

_because we have space and resources for CS

_adaptation of training for different institutions for individual projects

_photographer for CS

_librarians giving advises about CS

_CTK publication for citizen science project planning

_5 steps of Planning CS projects

_recommendations for recruiting CS researchers

Citizen Science Platform + Infrastructure

Til MLAKAR
Universe v Ljubljani

What RESULTS?

_bringing people together to help to improve the quality of life in the library and outside of the library. To help library to become more open for knowledge.

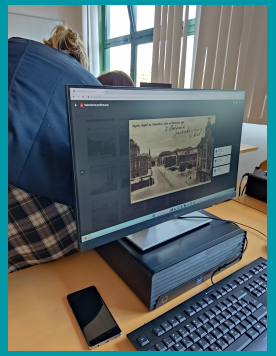
What NEXT?

_to make our platform for CS more international

_to promote our infrastructure in our library

- _specific infrastructure
  - _water case
  - _bird identification cassettes
  - _meeting room
  - _promotion of research

DENDROTEKA (NSK - ZAGREB)



WHAT is my action?

Identifying tree species on old postcards of Zagreb and their recreated photographs

WHY and for what purpose?

Presenting the cultural heritage from the National and University Library in Zagreb and connecting it with the natural heritage through scientific research

What RESULTS?

Involving students in scientific research, emphasizing the importance of sustainable development, and discovering interesting exotic tre species in the history of Zagreb.

What NEXT?

Creation and publication of the Dendroteka website that will contain a collection of postcards and photographs together with encyclopedic information on corresponding tree species

CONTACT: dmumelas@nsk.hr (Dolores Mumelaš)

NACIONALNA I SVEUČILIŠNA KNJIŽNICA U ZAGREBU

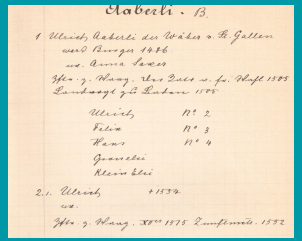
Gintare Tautkevičienė - KTU

University libraries strengthening the academia-society connection through citizen science in the Baltics

- What? to develop Citizen Science training course and provide training to improve the skills of library personnel in Baltic countries (Estonia, Latvia and Lithuania)
- Why? to enhance the role of libraries in promoting citizen science projects in higher education institutions
- Results: an online Citizen Science training course has been developed; training is being organised to improve the citizen science skills of library staff in partner institutions.
- What NEXT? to start and maintain a dialogue and action plan among Higher Education teaching/research staff and librarians in the Baltic states, collaborating on Citizen Science projects; to promote institutional changes by setting up a citizen science single point of contact in participating LibOCS universities.

Citizen Science and the Humanities at ZB Zürich

Stefan Wiederkehr



WHAT is my action?

Transcribing and commenting historical documents on the platform [e-manuscripta]

WHY and for what purpose?

raise interest in the history of Zürich and promote research on it

What RESULTS?

machine-readable text of digitized manuscripts, ground truth for HTR

What NEXT?

integrating HTR in the standard workflow

Citizen Science

Next session: Fall 2023
See you soon!!!