



ETD 2024

27th International Symposium on Electronic Theses and Dissertations

"Electronic Thesis and Dissertation Visibility at a Global Scale"

November 4-6, 2024
Livingstone · Zambia

North America

US

Canada

South America

Brazil

Colombia

Chile

Peru

Argentina

E.

N.

Asia

India

Hong Kong

Sing.

Taiwan

Thail.

Jap.

Australia and New Zealand

Australia

New Zeal.

Africa

South Africa

Ghana

The electronic version of this booklet can be found at:
<https://amcosconference.com/>

The open-source \LaTeX template, AMCOS_booklet, used to generate this booklet is available at https://github.com/maximelucas/AMCOS_booklet

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About

27th International Symposium on Electronic Theses and Dissertations

The 27th International Symposium on Electronic Theses and Dissertations (ETD 2024) aims to bring together global leaders and researchers working in the broad areas of digital libraries, institutional repositories scholarly research and electronic theses and dissertations. The theme of ETD 2024 is "ETD Visibility at a Global Scale", and will explore innovative approaches that make use of Electronic Theses and Dissertations (ETDs), including the use of modern-day Artificial Intelligence techniques such as Large Language Models and exploration of advances that will result in increased visibility of ETDs at a Global Scale.

Thank you so very much for coming to Livingstone Zambia to participate in the ETD 2024 conference events. We sincerely hope you enjoy the conference and your short stay in Livingstone, and, more importantly have productive and worthwhile discussions and meet new people!

Zikomo Kwambili!

Best Wishes
Lighton Phiri (Chair)

Local Conference Organizing committee

Lighton Phiri, UNZA	Denny Nsokolo, HEA	Francina Makondo, UNZA
Phyela Mbewe, UNZA	Thabiso Mwiinga, UNZA	Kaoma Daka, UNZA
Matildah Muchinga, LAMU	Stein Mkandawire, ZAMREN	Buumba Dubeka, ZCAS
Adrian Chisale, UNZA	Dokowe Tembo, ZCAS	Cecilia Kasonde, KNU
Habeenzu Mulunda, UNZA	Francis Kawesha, HEA	Fabian Kakana, UNZA
Brian Munkondya, MU	Elijah Chileshe, UNZA	Mpande Ntumbo, ZAMREN

Programme committee

Ana Pavani	Pontifícia Universidade Católica do Rio de Janeiro
Charles Greenberg	NDLTD
Edward Fox	Virginia Tech
Gabriela Mejias	DataCite
Hussein Suleman	University of Cape Town
Iryna Kuchma	EIFL
Jian Wu	Old Dominion University
Joachim Schöpfel	University of Lille
Lazarus Matizirofa	University of the Witwatersrand
Lighton Phiri	University of Zambia
Maïté Roux	ABES
Mirjana Brkovic	University of Novi Sad
Nabi Hasan	Indian Institute of Technology Delhi
Ramesh Gaur	Indira Gandhi National Centre for the Arts
Shantashree Sengupta	P.E.S Modern College of Arts Science and Commerce
Tainá Batista De Assis	Brazilian Institute of Information in Science and Technology
William Ingram	Virginia Polytechnic Institute and State University

Partner Institutions and Sponsors

The ETD 2024 conference was organised by the Networked Digital Library of Theses and Dissertations (NDLTD) and, additionally hosted by The University of Zambia (UNZA) and co-hosted by The Higher Education Authority (HEA) of Zambia and Zambia Research and Education Network (ZAMREN).

Gold, Silver and Gold Sponsors



Partner Institutions/Organisations



Timetable

CT: Contributed Talk, IS: Invited Speaker, KL: Keynote Lecture, IT: Invited Talk.

Day 1. Monday, November 4, 2024

Day 1. Monday, November 4, 2024			
8:30–9:00	Registration		
08:30–10:00	CT	Charles Greenberg, Hussein Suleman, Lighton Phiri NDLTD	Workshop 1. ETDs 101: No Experience Required!
08:30–10:00	CT	Lombe Tembo ORCID	Workshop 2. Leveraging ORCID's Global Participation Program
10:00–10:15	Tea/Coffee		
10:15–13:00	CT	Charles Greenberg, Hussein Suleman, Lighton Phiri NDLTD	Workshop 1. ETDs 101: No Experience Required!
10:15–13:00	CT	Lombe Tembo ORCID	Workshop 2. Leveraging ORCID's Global Participation Program
13:00–14:00	Lunch		
14:00–16:00	CT	Gabriela Mejias, Olatunbosun Obileye DataCite	Workshop 3. DataCite Connect
14:00–16:00	CT	Yinlin Chen, Bill Ingram, Ed Fox Virginia Tech	Workshop 4. Globalizing Knowledge
16:00–16:15	Tea/Coffee		
16:15–18:00	CT	Gabriela Mejias, Olatunbosun Obileye DataCite	Workshop 3. DataCite Connect
16:15–18:00	CT	Yinlin Chen, Bill Ingram, Ed Fox Virginia Tech	Workshop 4. Globalizing Knowledge
18:00–20:00	NDLTD Board of Directors Meeting		

Day 2. Tuesday, November 5, 2024

Day 2. Tuesday, November 5, 2024			
07:30–18:00	Registration		
08:30–09:45	Openning Ceremony Chair: Habeenzu Mulunda Venue: Convention Centre		
08:30–08:40	National Anthem		
08:40–08:45	Prayer		
08:45–08:55	IS	Lighton Phiri Chair, ETD 2024	Welcom Remarks
08:55–09:05	IS	Stein Mkandawire CEO, Zambia Research Education Network	Opening Remarks
09:05–09:15	IS	Trywell Kalusopa DVC of Research and Innovation, University of Zambia	Opening Remarks
09:15–09:25	IS	Kazhila C. Chinsembu Director General, Higher Education Authority	Opening Remarks
09:25–09:45	IS	Minister of Education Ministry of Education	Welcome Speech
09:45–11:00	KL	Hussein Suleman University of Cape Town	TBA
11:00–11:30	Tea/Coffee		
11:30–11:45	IT	Sylvia Kgorane ProQuest, a Part of Clarivate	Sponsor Talk
11:45–11:55	IT	Deane Kearns EBSCO Information Services	Sponsor Talk
12:00–13:00	Session 1A. Infrastructure and Technologies Chair: Charles Greenberg Venue: Convention Centre		
12:00–12:20	CT	Vivek Ranjan INFLIBNET	Landscape of Open Access Repositories with Special Reference to Electronic Theses and Dissertations (ETD) across SAARC and BRICS Nations: A Comparative Analysis

12:20–12:40	CT	Zillur Rahman Ahsanullah University of Science and Technology	Designing a plan for sharing ETD among the University Libraries in Bangladesh
12:40–12:60	CT	Kamani Perera Chartered Institute of Personnel Management	Implementing Persistent Identifier Infrastructure for Effective Management of ETD Repositories: A Case Study from Chartered Institute of Personnel Management, Sri Lanka
12:00–13:00	Session 1B. Policies and Practices		
	Chair: Gabriela Mejias		
	Venue: Convention Centre		
12:00–12:20	CT	Shahzeb Hassan Akal University	Future-Proofing Research by Long-term ETD Preservation: Challenges and Opportunities
12:20–12:40	CT	Jive Lubbungu Kwame Nkrumah University	E-Theses and Dissertations in Zambia: A Case Study of Two Universities in Kabwe
12:40–12:60	CT	Kamani Perera Chartered Institute of Personnel Management	Nurturing Advanced Research Culture among Medical Practitioners through ETDs: A case study from University of Kelaniya, Sri Lanka
13:00–14:00	Lunch		
14:00–15:30	Session 2A. Impact and Utilisation		
	Chair: Olatunbosun Obileye		
	Venue: Convention Centre		
14:00–14:20	CT	Xxxxx XXXXXX	Characterization of Scientific Production on Electronic Theses and Dissertations Based on a Bibliometric Analysis
14:20–14:40	CT	Xxxxx XXXXXX	Extracting and Registering References to Improve Scholarly Impact of ETDs
14:40–15:00	CT	Xxxxx XXXXXX	International Visibility of ETDs in Portuguese and in English on a Brazilian Repository
15:00–15:20	CT	Xxxxx XXXXXX	Do More Complete Dissertations' Metadata Get More Engagement?
14:00–15:30	Session 2B. ETDs in Developing Countries		
	Chair: Hussein Suleman		

		Venue: Convention Centre	
14:00–14:20	CT	Xxxxx XXXXXX	Improving the Mkulima Repository Content: Utilizing Theses, Dissertations, and LLMs for Agricultural Knowledge Dissemination in Kiswahili
14:20–14:40	CT	Xxxxx XXXXXX	The Changing Landscape in Research Data Management in Kenya's Universities: An Analysis of Development and Implementation
14:40–15:00	CT	Xxxxx XXXXXX	Empowering HRM Professionals: Advancing Research Culture with ETDs in The Chartered Institute of Personnel Management (CIPM), Sri Lanka
15:00–15:20	CT	Xxxxx XXXXXX	Unlocking the Potential of ETDs: Implementation Novel ETD Repository in Chartered Institute of Personnel Management in Sri Lanka
15:30–15:45	Tea/Coffee		
15:45–17:00	Session 3A. Infrastructure and Technologies Chair: Kaoma Daka Venue: Convention Centre		
15:45–16:05	CT	Xxxxx XXXXXX	A Pre-Processing Pipeline for Improved ETD Metadata Quality in Downstream Services
16:05–16:25	CT	Xxxxx XXXXXX	Seamless Integration of Koha and DSpace for Enhanced Management of Theses and Dissertations in Hybrid Environment: a case of University of Zambia Library
15:45–17:00	Session 3B. ETDs in Developing Countries Chair: Fabian Kakana Venue: Convention Centre		
15:45–17:00	CT	Xxxxx XXXXXX	Examining the Cultural and Institutional Factors Impacting ETD Visibility in Zambia: Policy and Practice Implications

16:05–16:25	CT	Xxxxx XXXXXX	ETD MS v2.0: A New Schema Draft for Electronic Theses and Dissertations
19:00–22:00		Mukuni BOMA Cultural Experience Welcome Reception	

Day 3. Wednesday, November 6, 2024

Day 3. Wednesday, November 6, 2024			
07:30–18:00	Registration		
08:30–09:30	Session 4A. Invited Talks: ETD Initiatives in Zambia		
	Chair: Denny Nsokolo		
	Venue: Convention Centre		
08:30–08:40	IT	Benaia Akombwa University of Zambia	Scholarly Research Infrastructure
08:45–08:55	IT	Zachary Zulu University of Zambia	University of Zambia Institutional Repository
09:00–09:10	IT	Clement Sinyangwe Chalimbana University	Chalimbana University Institutional Repository
09:15–09:25	IT	Buumba Dubeka and Dokowe Tembo ZCAS University	ZCAS University Institutional Repository
09:30–09:40	IT	Buumba Dubeka and Dokowe Tembo ZCAS University	ZCAS University Institutional Repository
09:45–09:55	IT	Eness Chitumbo and Mosebjadi Petje University of Zambia and Times Higher Education	University Ranking
10:00–11:00	Session 5A. Panel Discussion		
	Chair: Dokowe Tembo		
	Venue: Convention Centre		
10:00–11:00	IT	How do we set up Successful ETD Projects in Zambia? Moderator: Hussein Suleman	Participants: Gabriela Mejias (DataCite) · Manoj Kumar (INFLIBNET) · Lighton Phiri (UNZA) · Zachary Zulu (UNZA)
11:00–11:30	Session 6A. Poster/Demo Session: Minute Madness		
	Chair: Lombe Tembo		
	Venue: Convention Centre		
11:00–11:03	CT	Xxxxx Xxxxx XXXXXX	Enhancing Access to Scholarly Knowledge: Strategies for Promoting Open Access ETDs in Sri Lanka
11:03–11:04	CT	Xxxxx Xxxxx XXXXXX	Xxxxx Xxxxx Xxxxx Xxxxx Xxxxx Xxxxx Xxxxx Xxxxx Xxxxx Xxxxx Xxxxx Xxxxx Xxxxx Xxxxx

11:30–11:32	CT	Xxxxx Xxxxx XXXXXX	Xxxxx Xxxxx Xxxxx Xxxxx Xxxxx Xxxxx Xxxxx Xxxxx Xxxxx Xxxxx Xxxxx Xxxxx Xxxxx Xxxxx
11:45–12:30		Tea/Coffee	
11:45–12:30		Session 7A. Poster Session with Tea/Coffee	
		Chair: Thabiso Mwiinga	
		Venue: Convention Centre	
12:30–13:00		Closing Ceremony	
		Chair: Buumba Dubeka	
		Venue: Convention Centre	
12:30–12:45	IT	Lighton Phiri Chair - ETD 2024	Closing Remarks
12:45–13:00	IT	John Hagen Executive Director - USETDA	ETD 2025 Presentation
13:00–14:00		Lunch	
14:00–15:00		Mukuni Village Tour	
14:00–15:00		Victoria Falls Tour	

List of Abstracts

Workshops

ETDs 101: No Experience Required!

Charles Greenberg¹, Hussein Suleman^{1,2}, Lighton Phiri^{1,3}

¹ Networked Digital Library of Theses and Dissertations, United States

² University of Cape Town, South Africa

³ University of Zambia, Zambia

Many universities do not yet participate in the global network of digitized student theses or dissertations. The Networked Digital Library of Theses and Dissertations (NDLTD) wants to help universities to get started by sharing experiences of those that started ETD programs from nothing. Among the topics to be covered are: (i) Lifecycle Management of ETDs; (ii) Institutional Partnerships; (iii) Technology–Institutional repositories and OAI-PMH; (iv) Intellectual property issues; (v) Building an institutional concensus and (vi) Regional, National, and International support.

Please bring questions for the NDLTD Board members and paper presenters.

DataCite Connect: Global visibility for your ETDs and beyond with PIDs

Gabriela Mejias¹, Olatunbosun Obileye¹

¹ DataCite, Germany

PIDs and their associated metadata can be considered the building blocks of research infrastructure (Meadows et al., 2019). In addition, PIDs play a central role in the Open Science framework as they can increase transparency and recognition in research, and facilitate integration and interoperability, as well as making research FAIR (Wilkinson et al. 2016).

This half day workshop will explore how Persistent Identifiers (PIDs), particularly Digital Object Identifiers (DOIs), can significantly boost the global visibility of Electronic Theses and Dissertations (ETDs) and other research outputs. We'll cover the basics of PIDs, showing how DOIs improve visibility and discoverability for academic work. Through case studies, you'll see real-world examples of research organizations that have successfully integrated PIDs into their ETD repositories and other workflows. The session culminates in a breakout discussion to share best practices and explore implementation strategies. This workshop offers valuable insights for enhancing the visibility of your research through DataCite's PIDs, providing a unique opportunity to connect with the broader research community. Proposed activities:

- (20 min) Welcome and Ice breaker activity - (30 min) Introduction to Persistent Identifiers (PIDs) and how they support open research - (30 min) Discover the role of Digital Object Identifiers (DOIs) in making ETDs more visible and discoverable on a global scale.
- (30 min) Improving ETD and other research workflows with PIDs.
- (20 min) Coffee break
- (40 min) Case studies featuring invited guest speakers from research organizations implementing PIDs in their ETDs, research data repositories (and other!) workflows
- (50 min) Breakout session to discuss best practices and implementation workflows
- (10 min) Adjourn

Details of similar previous workshops:

<https://datacite.org/event/datacite-connect-gothenburg-dataciteconnect23/>

<https://datacite.org/event/datacite-connect-buenos-aires-dataciteconnect23/> ETD
Open Science: Maximizing the Discoverability and Impact through Persistent Identifiers (PIDs) <https://etd2023.inflibnet.ac.in/programme.php>

Facilitators: Gabriela Mejias, Bosun Obileye (DataCite). Guest speakers from research institutions will be confirmed upon workshop acceptance notification.

Globalizing Knowledge: Leveraging Large Language Models to Enhance Accessibility of ETDs

Yinlin Chen¹, William A Ingram^{1,2}, Edward A Fox^{1,3}

¹ Virginia Tech, United States

² Networked Digital Library of Theses and Dissertations, United States

Electronic Theses and Dissertations (ETDs) encapsulate significant research findings and innovative ideas but often have limited visibility and accessibility, particularly in regions and disciplines with restricted digital reach. This workshop introduces an LLM-based application using a Retrieval-Augmented Generation (RAG) architectural approach to address these challenges. By utilizing LLMs to translate and standardize ETD metadata and content into a user's native language, a unified vector database is established as a knowledge source for retrieving relevant information. This information is then supplied to the LLMs to generate comprehensive responses, enhancing searchability tailored to local or remote ETD collections.

This approach improves the indexing and discoverability of ETDs and ensures accessibility across linguistic boundaries. During the workshop, we will present the details of this system's components, illustrating the program workflow and the interaction dynamics between the query, retrieval, and response generation phases. Participants will learn how to integrate these technologies into their digital library systems and repositories, adapting them to various institutional needs to enhance their ETD collections' global visibility and utility.

Leveraging ORCID's Global Participation Program and Regional Consortium Approach to enhance Global ETD discoverability and reuse

Lombe Tembo¹

¹ ORCID, Zambia

This workshop proposal aims to explore strategies for leveraging ORCID and Persistent Identifiers (PIDs) to enhance the discoverability and reusability of Electronic Theses and Dissertations (ETDs) on a global scale. ETDs represent a vital component of scholarly communication, providing valuable insights and contributions to research across various disciplines. However, their full potential often remains untapped due to challenges related to visibility, accessibility, and interoperability.

ORCID, providing an open registry and a unique identifier for researchers, offers a transformative solution to address these challenges by placing researchers at the center of scholarly communication. With over 6000 connected systems worldwide, ORCID provides a robust infrastructure to facilitate trusted data exchange through integrations with global scholarly systems and indexes. By adopting ORCID in ETD repositories, institutions can enhance the quality of data associated with ETDs, improve interoperability with other scholarly systems, and increase visibility and reuse on a global scale.

In addition to ORCID, other Persistent Identifiers (PIDs) play a crucial role in enhancing the discoverability of ETDs by providing unique and persistent links to scholarly output.

Through the implementation of PIDs in ETD repositories and connected systems, institutions can ensure that ETDs remain discoverable and accessible over time, thus maximizing their impact and visibility within the research community.

Furthermore, this workshop will explore the role of ORCID's Global Participation Program (GPP) and Regional Consortium initiatives to facilitate global communities of practice, fostering collaboration among diverse stakeholders that advance ETD management practices. By participating in the GPP and regional consortia, institutions can leverage collective expertise, resources, and networks to enhance the visibility and impact of ETDs on a global scale.

Through collaborative discussions, participants will gain actionable insights and strategies to effectively leverage ORCID and PIDs for ETD management and dissemination. By engaging with this workshop, participants will be empowered to maximize the impact of ETDs through PIDs within their institutions and contribute to the advancement of scholarly communication on a global scale.

This session can be part of a wider workshop relating to scholarly infrastructure and/or PIDs, and can also be placed within the main conference presentation line-up.

Full Papers

Title of a keynote lecture

L. Tremblay

KL

McGill University, Montreal, Canada

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Title of contributed talk

M. Fournier¹, D. Dupont^{1,2,3}

¹ Physics Department, Université Libre de Bruxelles, Brussels, Belgium

² Physics Department, Lancaster University, Lancaster, UK

³ CSDC, University of Florence, Florence, Italy

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Title of invited speaker

H. Sato

IS

Department of Physics, Tokyo Institute of Technology, Tokyo, Japan

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Title of contributed talk with math and paragraphs

M. Smith¹, D. Dupont^{1,2,3}

¹ Physics Department, Université Libre de Bruxelles, Brussels, Belgium

² Physics Department, Lancaster University, Lancaster, UK

³ CSDC, University of Florence, Florence, Italy

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Title of contributed talk with math and references

M. Rodriguez¹, D. Dupont^{1,2,3}

¹ Physics Department, Université Libre de Bruxelles, Brussels, Belgium

² Physics Department, Lancaster University, Lancaster, UK

³ CSDC, University of Florence, Florence, Italy

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References

- [1] Sanchez-Vives M.V., Massimini M. and Mattia M. (2017). Neuron, 94(5):993-1001.
- [2] Capone C., Rebollo B., Muñoz A., Illa X., Del Giudice P., Sanchez-Vives M.V., Mattia M. (2017). Cereb Cortex, 28:1-17.

Title of contributed talk and references and a figure

M. Jansen¹, D. Dupont^{1,2,3}

¹ Physics Department, Université Libre de Bruxelles, Brussels, Belgium

² Physics Department, Lancaster University, Lancaster, UK

³ CSDC, University of Florence, Florence, Italy

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Invited Speakers

A Special Talk about Diversity in Science

F. Schmidt

IT

Physics Department, Technical University of Munich, Germany

One of the most consistent global trends in science over the last decades concerns the move from individual efforts of scientists to collaborative projects among several researchers. Across most scientific disciplines the solitary researcher has been replaced by collective efforts between individuals often distributed across organizations and countries. Accompanying this trend are efforts to understand the “ingredients” of excellent research teams. Social sciences, but also social psychology as well as social networks analysis have all contributed to the understanding of successful collaborations. This contribution will review the elements of excellent teams as well as highlighting how bias and stereotypes can undermine optimal group performance. The presentation will be rounded up by examples how diversity not only affects research collaboration but also improves the quality of the produced science and engineering knowledge.

List of Posters

Tuesday Session

A random abstract title

J. Doe¹, M. Smith^{2,3}

¹ Faculty of Science and Technology, Bournemouth University, UK

² Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain

³ ICREA Barcelona, Spain

⁴ Bernstein Center for Computational Neuroscience, Medical Faculty Mannheim and Heidelberg University, Germany.

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References

- [1] Sanchez-Vives M.V., Massimini M. and Mattia M. (2017). Neuron, 94(5):993-1001.
- [2] Capone C., Rebollo B., Muñoz A., Illa X., Del Giudice P., Sanchez-Vives M.V., Mattia M. (2017). Cereb Cortex, 28:1-17.

A random abstract title

J. Doe¹, M. Smith^{2,3}

¹ Faculty of Science and Technology, Bournemouth University, UK

² Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain

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¹ Faculty of Science and Technology, Bournemouth University, UK

² Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain

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List of Participants

Austin Mclean	ProQuest, a part of Clarivate	United States
Bertrand Thomas	Abes	France
Charles Greenberg	Networked Digital Library of Theses and Dissertations	United States
Edward Fox	Networked Digital Library of Theses and Dissertations (NDLTD)	United States
Ernest Banda	Zynle Technologies Limited	Zambia
Gabriela Mejias	DataCite	Germany
Hussein Suleman	University of Cape Town	South Africa
Johanssen Obanda	Crossref	Kenya
Josiline Chigwada	University of South Africa	South Africa
Kudakwashe Siziva	Datacite	South Africa
Lamia Salsabil	Old Dominion University	United States
Manoj Kumar K	INFLIBNET Centre	India
Martin Nkumbula	Zynle Technologies Limited	Zambia
Mduduzi Aubrey Ntetha	University of South Africa	South Africa
Olatunbosun Obileye	DataCite	Nigeria
Olivier Cian	ABES	France
Shahzeb Hasan	Akal University	India
Vivek Ranjan	Silver Oak University	India
Wendel Fabian Chinsamy	DataCite	South Africa

Useful Information

Talks will be held at the **Conference Hall-Auditorium** of PRBB. It is situated on the first floor of the central courtyard and has independent access from the rest of the building (through stairs located at the ground floor, main entrance of PRBB).

Coffee breaks and lunches will be offered in the half-covered terrace in front of the main entrance of the conference hall.

The **poster session** will be held on Tuesday and Wednesday night on the **ground floor** of the PRBB.

Wi-Fi will be available during the conference. The PRBB also provides access to an eduroam network.

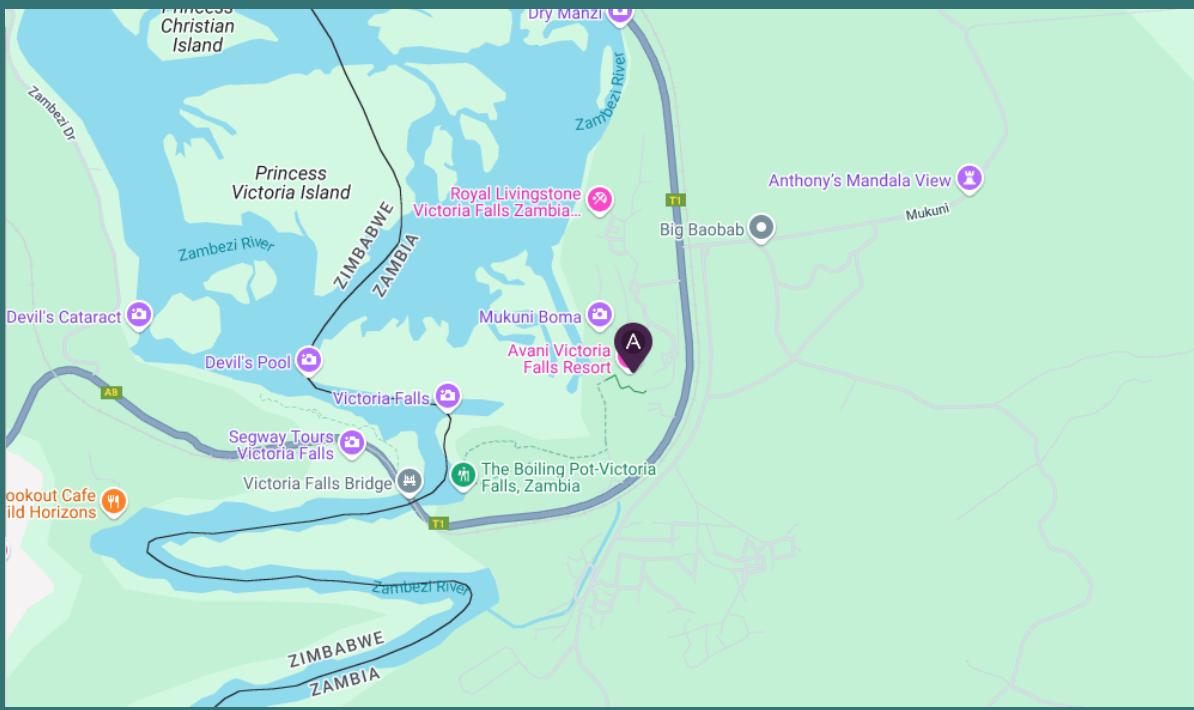
The **conference dinner** will be held at the "The best restaurant", at Some Street, 39, Barcelona.

How to get to the Avani Victoria Falls Resort?

The PRBB building overlooks the Ronda del Litoral and is next to the twin towers of the Olympic Village: Torre Mapfre and Arts Hotel. The address is Carrer del Dr. Aiguader, 88, 08003 Barcelona, Spain. and can be reached by:

- **Subway:** yellow line, L4, station Ciutadella/Vila Olímpica,
- **Bus:** lines V21, 14, 36, 41, 45, 59, 71, 92, D20,
- **Tram:** line 4, stop Vila Olímpica.

Avani Victoria Falls Resort: Google Maps Location



Avani Victoria Falls Resort: Convention Centre Layout



