# LOGIC – A WORLD OF INTERDISCIPLINARY SCIENCE

**Thursday, 14 January 2021**

Logic is a science that deals with the rules and processes used in reasoning. It cuts across different scientific fields, sadly, there is often limited interaction between logicians in different disciplines. The significance of logic, especially to emerging trends in science, technology, and innovation is aptly captured in following extract:

*In the twenty-first century - indeed, now more than ever – the discipline of logic is a particularly timely one, utterly vital to our societies and economies. Computer Science and information and communications technology, for example, are rooted in logical and algorithmic reasoning.*

*- Audrey Azoulay, Director-General of UNESCO*

The UNESCO World Logic Day held annually on January 14 is a global celebration of logic. The date was officially proclaimed by UNESCO at the 40th session of its General Conference in November 2019, in association with the International Council for Philosophy and Human Sciences (CIPSH). The annual events will help to foster and strengthen interactions between people having interest in logic and showcase the works of logicians.

Come January 14, 2021 we will be having the *World Logic Day* celebration through a virtual meeting where participants will, among other things, get an overview of the value of logic for different disciplines.

The date January 14 was chosen in honor of two prominent logicians of the twentieth century: Kurt Godel, who died on 14 January 1978, established the incompleteness theorem, which transformed the study of logic in the twentieth century; and Alfred Tarski, who was born on 14 January 1901, developed theories which interacted with those of Godel.

As part of the UNESCO World Logic Day 2021, you are invited to participate in a zoom meeting featuring talks on the role of logic across disciplines. This event will bring together logicians in the fields of Mathematics, Philosophy, Computer Science and other related areas.

Register here to receive the zoom link and a reminder for this event.

**Speakers**



Emma Ruttkamp-Bloem

Philosophy, University of Pretoria & Centre for AI Research

(The Interdisciplinary Value of Formal Logic) Abstract
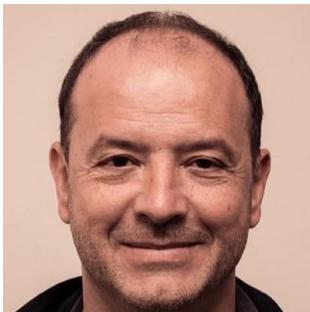


Thomas Meyer

Computer Science, University of Cape Town & Centre for AI Research

(The Interdisciplinary Value of Formal Logic)

Yurii Khomskii

Mathematics, University of Hamburg & Amsterdam University College

(Regularity and Definability: applications of set theory in topology and analysis)
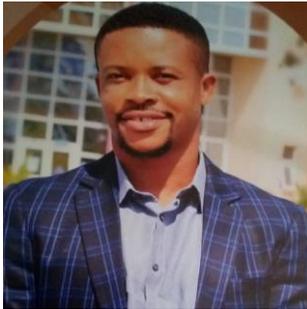
T. O. William-West

Mathematics, Ahmadu Bello University Zaria

(Logic: a scaffold for natural and artificial intelligence and a tool for switching between them)
Abstract

**Organizer**

Funmilola Balogun

Mathematics, Federal University Dutsinma

**Preliminary Schedule** (WAT, GMT+1)

11.00 - 11.05   Electronic arrival

11.05 – 11.10   Welcome note: Funmilola Balogun

11.10 – 11.50   The Interdisciplinary Value of Formal Logic: Emma Ruttkamp-Bloem &
Thomas Meyer

11.55 – 12.25   Regularity and Definability: applications of set theory in topology and
analysis: Yurii Khomskii

12.30 – 13.00   Logic: a scaffold for natural and artificial intelligence and a tool for switching
between them: T. O. William-West

13.05 – 13.10   Closing remarks & zoom photograph

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