

BrAIIn Evolution

Palaeosciences, Neuroscience and
Artificial Intelligence

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Wednesday, November 22nd

13:30 Welcome address

Session 1

13:45 **Dominic Stratford (Univ. Witwatersrand, South Africa)** - Keynote: Introducing the palaeoanthropology of the Cradle of Humankind, South Africa: sites, hominins, and questions.

14:30 **Amélie Beudet (CNRS & Univ. Poitiers, France - Univ. Witwatersrand, South Africa)** - The EndoMap project: mapping the brain of our ancestors and relatives.

15:00 **Edwin de Jager (Univ. Cambridge, UK)** - Revolutionising palaeoneurology: Advanced analytics of sulcal imprints in fossil brain endocast.

15:30 Coffee break

Session 2

16:00 **Benjamin Rosman (Univ. Witwatersrand, South Africa)** - Deep Learning and Deeper Caves: From Fossil Analysis to Robotic Exploration.

16:30 **Victoria Williams (Univ. Witwatersrand, South Africa)** - 'The Planning of the Apes' Evolution of deception in primates.

17:00 **Julia Aramendi (Univ. Cambridge, UK)** - The Reverse Engineering method - a new perspective on missing landmark estimation using *Homo naledi* limb long bones.

Thursday, November 23rd

Session 3

- 9:00 **Jonathan Shock (Univ. Cape Town, South Africa)** - Tracking the brain age trajectory through deep learning.
- 9:30 **Sandrine Prat (CNRS & Muséum national d'Histoire naturelle & Université de Perpignan, France)** - Cognition, motricity and behaviour of the first stone-tool makers.
- 10:00 **Coffee break**

Session 4

- 10:30 **Brainstorming** - Developing cross-disciplinary approaches for unravelling the evolutionary history of the human brain.
- 12:00 **Closing address**