



UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA



**Sponsored by**

Resident School in Health Statistics and  
Biometrics & PhD Course in Translational  
Specialistic Medicine "G. B. Morgagni"  
University of Padova

**AI4A Artificial Intelligence for Africa**  
Shaping Global Health  
Perspectives from Research and  
Medicine in Africa

**11 - 12 June 2024**

Aula Morgagni, Policlinico  
Universitario  
(Via Giustiniani, 2, Padova)  
or via **Zoom**

 <https://unipd.zoom.us/j/87939428672>



**Tuesday, June 11, 2024**

**The AI4A workshop program**, organized by Padova University, aims to explore the impact of Artificial Intelligence on medicine, public health, and biostatistics in the African context. The program brings together experts from various fields to discuss the opportunities, challenges, and implementation strategies of AI solutions for enhanced healthcare delivery in Africa. **Padova University**, as the organizer of this event, provides a platform for researchers to collaborate and share their findings, and offers opportunities for further research in the field of AI and its applications in healthcare. **The university's Ph.D. Program Translational Specialistic Medicine "G.B. Morgagni"** is one such opportunity for researchers to pursue advanced studies in this field

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**9:00 AM Greetings from authorities**

*Vice-Rector of UniPD for Doctorates and e Postgraduate Programs*  
**Massimiliano Zattin**

*Director of CUAMM*  
**Don Dante Carraro**



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## AI4A Artificial Intelligence for Africa Shaping Global Health Perspectives from Research and Medicine in Africa

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Tuesday, June 11, 2024

### Exploring Artificial Intelligence's Impact on Medicine and Public Health in the African Context

Chairs: **Dario Gregori, Giovanni Putoto**

09:30 AM - AI Solutions in Radiology to  
Enhanced Diagnostic Healthcare Delivery in  
Ethiopia: Opportunities, Challenges, and  
Implementation Strategies  
**Nour Amal Saleh**, Addis Ababa University,  
Addis Ababa, Ethiopia

10:00 AM - The use of Artificial Intelligence in  
the Areas of Public Health and Biomedicine  
**Jahit Sacarlal**, University Edmondo Mondlane,  
Mozambique

10:30 AM - Synergizing Artificial Intelligence,  
applied Mathematics, and Big Data for  
enhanced Healthcare: A case study in the  
African Medical Landscape  
**Selain Kasereka Kabunga**, Department of  
Mathematics, Statistics and Computer Science,  
Democratic Republic of Congo

11:00 AM - 11:30 AM Networking Break

### AI in Health Impact Assessment and Implementation Strategies in Africa

Chairs: **Annibale Biggeri, Dolores Catelan,  
Paolo Spagnolo**

11:30 AM - Health Impact Assessment: AI  
Tools for Evaluating Environmental Policies  
**Sandra Maria Eugenio Janela**, MA in  
Geomatics and Natural Resources Evaluation,  
Mozambique - **ONLINE** -

12:00 PM - Transformative Healthcare  
Solution: Assessing the Integration and  
Effectiveness of Artificial Intelligence and  
Machine Learning in Electronic Health  
Records Management: A case Study in  
Ethiopia Medical Facilities  
**Senahara Korsa Wake**, Ambo University,  
Ethiopia

12:30 PM - 02:00 PM Lunch Break



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### Artificial Intelligence to defeat infections diseases

*Chairs: Elena Pegoraro, Piergiorgio Sonato*

02:00 PM - Integration of Artificial Intelligence  
in Predicting the Intersection Between  
Climate Change and Malaria Transmission for  
Public Health decision in Ethiopia  
**Eden Girmaye Tefera**, *Ambo University,  
Ethiopia* - **ONLINE** -

02:30 PM - The anticipated role of Artificial  
Intelligence and Machine Learning in  
Revolutionizing the Research and Practice of  
Healthcare Sectors in Africa  
**Mohamed A. Khalil**, *University of Khartoum,  
Sudan* - **ONLINE** -

03:00 PM - AI in Medicine (*tentative title*)  
**Mouhamadou Moustapha Cissé**, *Senegal*

**03:30 PM - 04:00 PM Networking Break**

### Roundtable Outlook on research and advanced education in Africa in cooperation with Padova

*Chairs: Giovanni Putato, Piergiorgio Sonato,  
Massimiliano Zattin*

04:00 PM - The UN Resolution on "Seizing  
the opportunities of safe, secure and  
trustworthy artificial intelligence systems for  
sustainable development"  
**Laura Romano**, *Italian Representative, UN,  
New York* - **ONLINE** -

04:45 PM - The Point of view of Italian  
Representative PM - The Point of view of  
Italian Representativess  
**Laura Elena Pacifici Noja** (*Italian Embassy,  
Ethiopia*) - **ONLINE** -  
**Eugenio Cavallo** (*Italian Embassy, Senegal*)

**5:30 PM - 06:30 PM - Aperitif**



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**Wednesday, June 12, 2024**

**Postgraduate education in  
Padova: new opportunities  
and programs**

*Chairs: Annalisa Angelini, Dario Gregori*

09:15 AM - The program of internationalization  
of doctoral training at the University of Padua  
**Massimiliano Zattin**, Vice-Rector of UniPD for  
Doctorates and e Postgraduate Programs

09:30 AM - The Experimental Program TADPOLE  
at Morgagni PhD  
**Dario Gregori**, University of Padova

09:45 AM - TADPOLE in Latin America  
**Ferdinando Fava**, University of Padova -  
**ONLINE** -

**Exploring Artificial Intelligence's  
Impact on Medicine, Public  
Health, and Biostatistics in the  
African Context**

*Chairs: Francesca Tognon, Cristina Canova*

10:00 AM - Role of Artificial intelligence in  
Biomedical research

**Kajal Dhirajal Chhaganlal**, University  
Edmondo Mondlane, Mozambique

10:30 AM - From Data to Diagnosis: The AI  
Revolution In Healthcare

**Makiwin Danladi Makut**, Nasarawa State  
University, Keffi Nigeria - **ONLINE** -

**11:00 AM - 11:30 AM - Networking Break**



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**Exploring Artificial  
Intelligence's Impact on  
Medicine, Public Health, and  
Biostatistics in the African  
Context**

*Chairs: Corrado Lanera, Chiara Giraudo*

11:30 AM - Exploration of AI Usage among  
Public Health Workers and Students Low-  
Income Countries: Sudan as an Example  
**Nazik Eltayeb Musa Mustafa**, University of  
Khartoum, Khartoum, Sudan

12:00 PM - Application of Artificial Intelligence in  
the Medical Field: Problems and Prospects - A  
case study in Africa  
**Muhammad Lawan Jibril**, Federal  
University, Kashere, Nigeria - **ONLINE** -

**12:30 PM - 01:30 PM - Lunch Break**

**Pitches from "G.B. Morgagni"  
PhD program and reactions**

*Chairs: Ileana Baldi, Emanuele Cozzi*

01:30 PM - The Padova Infrastructure for  
Artificial Intelligence  
**Andrea Zanella**

02:00 PM Five minutes shots from our PhD  
programs

- Clinical Predictive Models  
**Noor Muhammad Khan**
- Text analysis for clinical research -  
current experiences at UBEP  
**Corrado Lanera**
- Radiomics in rapid learning healthcare  
systems  
**Chiara Giraudo**
- Digital pathology and AI in interstitial  
lung diseases: methodology and  
perspectives  
**Giuseppe Maggioni**
- Integrating Complex Network Theory  
and AI for Enhanced Monitoring of Heart  
Transplant Recipients  
**Diego Perazzolo - ONLINE** -



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- Application of AI in Digital Pathology for understanding pathological mechanisms of thrombosis  
**Ilaria Barison - ONLINE -**
- Wearable Signals: Rethinking Chronic Disease Management  
**Maria Vittoria Chiaruttini**
- Food recognition and caloric intake estimates through commercial smartwatches  
**Luca Vedovelli**
- From Vision to Reality: Robotics in Thoracic Surgery  
**Eleonora Faccioli**
- Heart disease: AI for prognosis  
**Mattia Corianò, Martina Perazzolo Marra - ONLINE -**
- Geospatial Insights: How mapping data enhances our understanding of disease spreading  
**Giorgia Stoppa**
- Goals and activities of the 10th Edition of the IASLC International Staging Project: Lung Cancer, Mesothelioma, and Thymic Malignancies  
**Federica Pezzuto**
- Patients engagement  
**Chiara Tessari - ONLINE -**

**Discussants**

**Nazik Eltayeb Musa Mustafa, Kajal Dhirajlal Chhaganlal, Senahara Korsia Wake, Selain Kasereka Kabunga, Jahit Sacarlal, Amal Saleh Nour, Eugenio Cavallo, Mouhamadou Moustapha Cissé**

**03:30 PM - 04:00 PM - Networking Coffee**

**Roundtable: International interactions and perspectives**

**04:00 PM - The point of view of the Institutions**

**Marien NGOUABI**, In charge of University Works, Culture, Sport and Economy, Congo Embassy - **ONLINE -**

**04:30 PM - Experience from Padua**

**Barbara Mantelli**, International Research Office, University of Padua  
**Giovanni Putoto/Francesca Tagnon**, Doctors with Africa - **CUAMM**

**05:15 PM - Closing remarks**

**Annalisa Angelini, Don Dante Carraro**