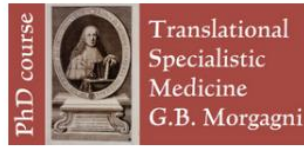




UNIVERSITÀ
DEGLI STUDI
DI PADOVA



PhD course in Translational Specialistic Medicine 'G.B. Morgagni'

"Shaping a World-Class University"

ARTIFICIAL INTELLIGENCE IN BIO-MEDICAL RESEARCH IN AFRICA. SHAPING THE FUTURE OF SCIENCES

October 17-20, 2023

October 17, 2023 – 04:00-06:20 pm C.E.S.T. Time

Topic 1: "Artificial intelligence, biomedical research and the regulatory environment: the African and European experience"

Moderators:

Corrado Lanera, Assistant Professor - University of Padova, IT

Alberto Zanatta, Assistant Professor - University of Padova, IT

Initial greetings:

Cristina Basso, Vice Rector for International Relations, University of Padua Professor of Pathology, University of Padua - Director, Cardiovascular Pathology Unit - Azienda Ospedaliera, IT

04:00-04:30 pm Talk 1: "The policy of the University of Padova for international collaborations with emerging countries: a bridge to Africa"

Piergiorgio Sonato, Advisor for Africa and International Cooperation, Full Professor, University of Padova

04:30-05:00 pm Talk 2: "The global experience from CUAMM"

Don Dante Carraro, Doctors with Africa CUAMM, IT

05:00-05:30 pm Talk 3: "The African experience in research"

Francesca Tognon, Doctors with Africa CUAMM, IT

05:30-06:00 pm Talk 4: "Artificial Intelligence, Machine Learning in a limited resource bio-medical research setting"

Dario Gregori, Full Professor of Medical Statistics – University of Padova, IT

06:00-06:20 pm Floor discussion

October 18, 2023 – 04:00-06:00 pm C.E.S.T. Time

Topic 2: "Artificial Intelligence in Geographical Epidemiology"

Moderators:

Annibale Biggeri, *Professor of Medical Statistics – University of Padova, IT*

Giovanni Putoto, Francesca Tognon, *Doctors with Africa CUAMM, IT*

Elena Pegoraro, *Professor of Neuroscience, University of Padova, IT*

04:00–04:30 pm Talk 1: "Increasing the Clinical Relevance of Observational, Population-based Studies using Machine Learning in Genomics"

Luca Vedovelli, *Assistant Professor, University of Padova, IT*

04:30–05:00 pm Talk 2: "Picturing spread of diseases: the contribution of machine learning to geo-spatial modeling"

Dolores Catelan, *Associate Professor, University of Padova, IT*

05:00–05:30 pm Talk 3: "Pollution and health monitoring via machine learning: thinking big on a large scale"

Cristina Canova, *Associate Professor, University of Padova, IT*

05:30–06:00 pm Floor discussion

October 19, 2023 – 04:00-06:00 pm C.E.S.T. Time

Topic 3: "Artificial Intelligence in Cardiac and Pulmonary Pathology: Clinics and Research"

Moderators:

Honorina Ocagli, *Post-Doc Researcher, University of Padova, IT*

Tawadod Abdalgader Abdalla Mohamed, *Scholar at Risk fellow, DCTV, University of Padova, IT*

04:00–04:30 pm Talk 1: Digital pathology and AI in cardiovascular pathology"

Annalisa Angelini, *Professor of Cardiovascular Pathology – University of Padova, IT*

04:30–05:00 pm Talk 2: "AI in Pulmonary Medicine: Current Status and Future Directions"

Muhammad Lawan Jibril, *University of Kashere, Gombe-Nigeria*

05:00–05:30 pm Talk 3: "AI for Health Equity: Addressing Bias and Diversity in Cardiology and Pneumology"

Christian Domilongo Bope, *University of Kinshasa, DR Congo*

05:30–06:00 pm Floor discussion

October 20, 2023 – 04:00-06:00 pm C.E.S.T. Time

Topic 4: "Ph.D. Students meet Africa"

Moderators:

Annalisa Angelini, *Professor of Cardiovascular Pathology – University of Padova, IT*

Dario Gregori, *Professor of Medical Statistics – University of Padova, IT*

04:00–04:20 pm Talk 1: "Machine learning models to create an Expert system to predict major cardiac events in monitoring heart transplant

patients”

Diego Perazzolo, *Ph.D. Student, PhD Course in Translational Specialistic Medicine "G.B. Morgagni", University of Padova, IT*

04:20–04:40 pm Talk 2: “Monitoring sedation of children during anesthesia: hybrid approaches between biostatistics and machine learning”

Noor Muhammad Khan, *Ph.D. Student, PhD Course in Translational Specialistic Medicine "G.B. Morgagni", University of Padova, IT*

04:40–05:00 pm Talk 3: “Machine Learning for Omics Data Analysis in Neuroscience (GWAS for DMD)”

Sara Ahsani-Nasab, *Ph.D. Student, PhD Course in Translational Specialistic Medicine "G.B. Morgagni", University of Padova, IT*

05:00–05:20 pm Talk 4: “The effectiveness of the maternity waiting home in reducing perinatal mortality. A case-control in study in Ethiopia”

Teresa Dalla Zuanna, *Ph.D. Doctor, PhD Course in Translational Specialistic Medicine "G.B. Morgagni", University of Padova, IT*

05:20–05:40 pm Talk 5: “Improving risk stratification in pediatric intensive care units: a head-to-head comparison between classical models and machine learning”

Maria Vittoria Chiaruttini, *Ph.D. Student, PhD Course in Translational Specialistic Medicine "G.B. Morgagni", University of Padova, IT*

05:40–06:00 pm Floor discussion