

## Symposium on Machine Learning and Data Modelling in the Biomedical Sciences (MLDMBioMed-2022), Sept 27-28

**Day 1- Tuesday, Sept 27 (All times are in Eastern Day time (EDT): Toronto, CANADA)**

<b>Morning Session (9:00 AM-12:15). Session Leader: Prof. Jianhong Wu</b>		
9:00-9:05	Participants Join zoom	Participants Join zoom
9:05-09:10	Prof. Jianhong Wu, Jude Kong & WAW	Welcome note & General information
9:10-9:15	Associate Dean, Research & Partnerships	Opening remarks
9:15- 9:20	York network of research labs	York's landscape in MLDMBioMed: Directors of research labs
<b>Time</b>	<b>Speaker</b>	<b>Title of talk</b>
9:20-10:20	Prof. Wilfred Ndifon, AIMS	Data modelling in biomedical sciences: the value of 'first-principles' thinking
10:20-11:20	Prof. Nathanael Osgood*, Canada	Machine-learning enabled dynamic models for service delivery and research for the COVID-19 and opioid epidemics
11:20-12:20	Prof. Jacek Banasiak, South Africa	Multiple time scales and long-term dynamics in malaria modelling
12:20-13:00	Break	Break
<b>Afternoon Session (13:00-17:30). Session Leader: Woldegebriel Assefa Woldegerima</b>		
13:00-14:00	Dr. Yonas Weldeselasie, UK & Durga Parkhi, UK	Machine learning prediction of early postpartum glucose intolerance in women with gestational diabetes mellitus
14:00-14:30	Dr. Zahra Movahedi Nia, Canada	Tracing unemployment rate of South Africa during the COVID-19 pandemic using Twitter data
14:30-15:00	Mr. André Fonscea, Portugal	Identification of candidate antibody targets for disease diagnosis using high-throughput data and novel analytical pipelines
15:00-15:30	Dr. Suzan Farhang Sardroodi, Canada	Pharmaceutical and non-pharmaceutical interventions for controlling the COVID-19 pandemic
15:30-16:00	Dr. Theophilus Quachie Asenso, Norway	Modeling high-dimensional interaction problems with the pliable lasso
16:30-17:00	Zeray Hagos Gebrezabher, Brazil	Synchronization transitions caused by time-varying coupling functions












- All times are Eastern day time (EDT)= Toronto, Canada time= UTC-4
- **Question:** Please, contact Woldegebriel Assefa Woldegerima ([wassefaw@yorku.ca](mailto:wassefaw@yorku.ca)).

## Day 2- Wednesday, Sept 28 (All times are in EDT: Toronto, CA)

Morning Session (9:00AM-12:30). Session Leader: Woldegebriel Assefa & Jude Kong		
Time	Speaker	Title of talk
9:00-9:30	Dr. Xiaoli Chen, Singapore	Machine learning method to learn the stochastic dynamical systems and its application in DNA dynamics
9:30-10:00	Prof. Rachid Ouifki, South Africa	The estrogen paradox in breast cancer treatment. Mathematical modelling and optimal control
10:00-10:30	Dr. Otasowie Owolafe, Nigeria	Ensemble of Deep Learning Models for Early Detection of Monkeypox using clinical symptoms and digital image
10:30-11:00	Dr. Stéphane Nemours, Spain	Identification of sex-specific targets of renal ischemia-reperfusion injury (IRI) using artificial intelligence
11:00-12:00	Prof. Bruce Mellado, South Africa	An Intelligent Air Quality Monitoring and Prediction System for Smart Cities
12:30-13:00	Mr. Scott Ulrich Jemea Ebolo, AIMS	Classification Analysis of Some Cancer Types by Using Machine Learning
12:30-14:00	Break	Break
Afternoon Session (14:00-17:30). Session Leader: Jude Kong		
Break	Break	Break
14:00-14:30	Mr. Nikam Ntambo Roger, AIMS-CR	Modelling insulin sensitivity using intra venous glucose tolerance test dataset
14:30-15:00	Mr. Ntembue Tshiakuisha Chadrac, AIMS-Ghana	Numerical solvability for a class of chaotic systems of differential equation: the Lorenz model, using both classical and fractional calculus
15:00-15:30	Mr. Asrat Mekonnen Belachew, Brazil	The impact of city mobility on propagation of infectious diseases: mathematical modelling approach
15:30-16:00	Dr. Blessing Ogbuokiri, Canada	Identifying COVID-19 vaccine hesitancy hotspots in Nigeria: analysis of social media posts
16:00-17:00	Prof. Bouchra Nasri, Canada	Epidemiological surveillance using Twitter data: some case studies
17:00-17:15	Closing Remarks	Chair of Dept. Maths & Stats (Prof. Stephen Watson) and the organizers

- All times are EDT (Toronto, Canada time) = UTC-4

 <b>Toronto, Canada</b> EDT (UTC -4)	Tue, Sep 27, 2022	<b>9:00 am</b> 😊	 <b>Madrid, Spain</b> CEST (UTC +2) 6 hour(s) ahead	Tue, Sep 27, 2022	<b>3:00 pm</b> 😊
 <b>Accra, Ghana</b> GMT (UTC +0) 4 hour(s) ahead	Tue, Sep 27, 2022	<b>1:00 pm</b> 😊	 <b>Lisbon, Portugal</b> WEST (UTC +1) 5 hour(s) ahead	Tue, Sep 27, 2022	<b>2:00 pm</b> 😊
 <b>Beijing, China</b> CST (UTC +8) 12 hour(s) ahead	Tue, Sep 27, 2022	<b>9:00 pm</b> 😊	 <b>Oslo, Norway</b> CEST (UTC +2) 6 hour(s) ahead	Tue, Sep 27, 2022	<b>3:00 pm</b> 😊
 <b>London, United Kingdom</b> BST (UTC +1) 5 hour(s) ahead	Tue, Sep 27, 2022	<b>2:00 pm</b> 😊	 <b>Rio de Janeiro, Brazil</b> BRT (UTC -3) 1 hour(s) ahead	Tue, Sep 27, 2022	<b>10:00 am</b> 😊
 <b>Johannesburg, South Africa</b> SAST (UTC +2) 6 hour(s) ahead	Tue, Sep 27, 2022	<b>3:00 pm</b> 😊	 <b>Yaoundé, Cameroon</b> WAT (UTC +1) 5 hour(s) ahead	Tue, Sep 27, 2022	<b>2:00 pm</b> 😊
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