

Meeting link and Agenda: International Workshop on Quantum Computing: Foundations to Applications

ANSHUL SAXENA <anshul.saxena@christuniversity.in> Fri, May 28, 2021 at 7:06 PM
To: MBA Faculty Lavasa <mbafaculty.lavasa@christuniversity.in>, FACULTY LAVASA <faculty.lavasa@christuniversity.in>
Cc: JOSSY P GEORGE <frjossy@christuniversity.in>, Arun Antony Chully School of Business and Management <frarun@christuniversity.in>, Binu P Paul School of Business and Management <binu.paul@christuniversity.in>, BECKY MARY THOMAS <becky.thomas@christuniversity.in>, Jayant Mahajan School of Business and Management <jayant.mahajan@christuniversity.in>

Dear Colleagues,

Greetings from CEBT

I would like to extend the warm welcome and invite to all the faculty colleagues for the e-inauguration of the **Center for Emerging Business Technologies**. This occasion also coincides as well with the First International workshop on Quantum Computing.

Hereby attaching the zoom link and agenda for the **International Workshop on Quantum Computing** for your perusal. To promote the learning and awareness about Quantum Computing among the participants we are attaching a basic E-Book for starters. A Participation certificate will be provided after the session. Looking forward to meeting you in session tomorrow.

Date |Day | Timings – 29/5/21 |Saturday | 03:50 PM – 08:00 PM

Join Zoom Meeting - <https://zoom.us/j/98831814464?pwd=V0JvZFZ4cnFTYXdMRWpIMzYyUk9QZz09>

CHRIST

CHRIST

INAUGURATION OF
CENTRE FOR EMERGING BUSINESS TECHNOLOGY

Rev. Fr. Jossy P George
Director

Time:
3:50 PM - 4:05 PM

The Center for Emerging Business Technology (CEBT) takes a cross-disciplinary approach to understand quantum computers that satisfy practical criteria and helps business in taking quicker decisions. Innovation will be at the core of the CEBT's activities.

CHRIST

Introduction to Quantum Computing

I Power in this talk, I will give an introduction to quantum computing. I will discuss the basic

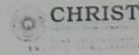




Mr. Pawel Gora

Time:
4:05 PM - 5:00 PM

In quantum computing, I will present the basic concepts of quantum computing, explain what is the difference between quantum and classical computers as well as between circuit-based quantum computing and quantum annealing. Finally, I will also outline some important quantum computing algorithms."



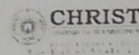
Application of Quantum Computing



Mr. Alex Khan

Time:
5:05 PM - 6:00 PM

Alex Khan will be going over a high level overview of quantum computing from a business practitioner perspective. He will discuss use cases and applications of quantum computing and dive more into financial portfolio optimization, COVID disease evolution vs lockdown, quantum security and quantum chemistry. He will give a view of quantum advantage and how to think about the value of quantum computing.



Quantum Computing- Workshop



Mr. Shadab Hussain

Time:
6:05 PM - 8:00 PM

- Introduction to Qiskit- Components of Qiskit: Terra, Aqua, Ignis, Aer
- IBM Quantum Composer Demo: Build, visualize, and run quantum circuits on quantum hardware/simulators
- Quantum Lab: Write scripts that combine Qiskit code, equations, visualizations, and narrative text in a Jupyter Notebook environment without installing it on local machine- Single Qubit Gates- Shor's Algorithm (Explanation, Circuit & Code)

Thanks and Regards
Anshul Saxena and Jayant Mahajan

Hughes2021_Book_QuantumComputingForTheQuantumC.pdf
4352K



CHRIST (Deemed to be University), Pune Lavasa Campus

CHRIST (Deemed to be University), Pune Lavasa Campus is committed to providing an environment for an individual's holistic development to make a difference in the world through a dynamic environment.

Workshop on 'Quantum Computing: From Foundations to Applications

- August 03, 2021

CENTER FOR EMERGING BUSINESS TECHNOLOGIES (CEBT), CHRIST (Deemed to be University) Lavasa conducted a workshop to raise awareness regarding Quantum computing's potential on 28-May-2021. This one-day workshop was vital to bridge the gap between conceptual and real-world applications. This workshop served as a platform to bring together theorists and practitioners in this area.

The introductory session was conducted by Mr. Pawel Gora, President, Quantum AI Foundation, on 'Quantum Computing.' This was followed by a discussion on the business applications of Quantum Computing by Mr. Alex Khan, Principal Advisor - Quantum Computing, Aligned IT LLC. Finally, a hands-on session was given by Mr. Shadab Hussain on Qiskit Platform - a live Quantum Computer. The faculty coordinator for this workshop was Prof Anshul Saxena and Dr Jayant Mahajan.

About the Workshop Focus Area:

Quantum computing is the processing of information that's represented by special quantum states. By tapping into quantum phenomena like 'superposition' and 'entanglement,' these machines handle information in a fundamentally different way to 'classical' computers like smartphones, laptops, or even today's most powerful supercomputers.





Alex Khan
Chief Product Officer, Chicago Quantum

Alex Khan is the Chief Product Officer at Chicago Quantum where he co-published research on financial portfolio optimization using D-Wave quantum annealer. He advises research teams and startups getting into quantum computing, has presented on a number of introductory quantum topics as corporate faculty at Harrisburg University, and is reviewing an upcoming quantum computing book. He is a former health IT executive and has engineering degrees from Purdue and KSU and an MBA from Duke.



Pawel Gora
Scientist, IT specialist

Scientist, IT specialist and entrepreneur working mostly on the applications of AI (especially in transportation and medicine) and quantum computing. Graduated from the Faculty of Mathematics, Informatics and Mechanics of the University of Warsaw (M.Sc. in Mathematics and M.Sc. in Computer Science) and is now a PhD Candidate at that Faculty. In the past, he worked as a software engineering intern or research intern at Microsoft, Google, CERN and IBM Research.

He is one of the organizers of 2 meetups in Warsaw: Warsaw.ai and Warsaw Quantum Computing Group and a member of the Board of QWorld and QPoland. He is also a founder and CEO of the "Quantum AI Foundation" <http://www.qaif.org> aiming to support the development of AI and quantum computing. He also co-founded the "Quantum AI" group (<https://www.facebook.com/groups/quantumai>) aiming to facilitate education in the area of applications of AI in quantum computing and quantum computing in AI.



Shadab Hussain
Data Scientist

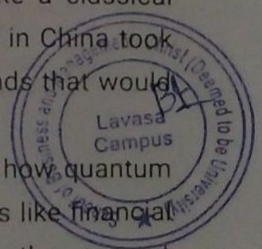
"A full-stack Data Scientist and Quantum Machine Learning enthusiasts with around 3 years of experience in Analytics and building end-to-end ml pipelines on the cloud using the AGILE framework for a client in Fortune 5, experience with teaching Quantum Computing using Qiskit, and founded & building Quantum Computing India community."

Why is quantum computing important?

Researchers have long predicted that quantum computers could tackle certain types of problems – especially those involving a daunting number of variables and potential outcomes, like simulations or optimization questions – much faster than any classical computer.

But now we're starting to see hints of this potential becoming reality. In 2019, Google ran a calculation on a quantum computer in just a few minutes that would take a classical computer 10,000 years to complete. A little over a year later, a team based in China took this a step further, claiming that it had performed a calculation in 200 seconds that would take an ordinary computer 2.5B years – 100 trillion times faster.

Though these demonstrations don't have practical use cases, they point to how quantum computers could dramatically change how we approach real-world problems like financial portfolio management, drug discovery, logistics, and much more. Propelled by the prospect of disrupting countless industries and quick-fire announcements of new advances, quantum computing is attracting more and more attention from players including big tech,



List of Participants for workshop on Quantum Computing
from Foundations to applications (28.05.21)

S.No	Name
1	MIDHUN MOHAN
2	Nidhi Singh
3	Siddharth.D
4	Etendra Verma
5	JOVITA V
6	VED DHARKAR
7	Tanmay Jakhmola
8	Rehan Das
9	Hill Shah
10	Lakshika Rathi
11	Simay Ugur
12	Seenu
13	Ayyappa P
14	Suman Dandapat
15	Mohamad Abdul Kader Jailani
16	AMEENA JUHI.R
17	niket kumar singh
18	Rakhshanda Mujib
19	P SREE LAKSHMI
20	Shobhana Saxena
21	SHUBHAM PANDEY
22	Shirshakk Purkayastha
23	Shuhul Handoo
24	TAMAL ACHARYA
25	Akansha Dubey
26	Advait Dharmadhikari
27	Devansh Agarwal
28	Arpit Verma
29	Ankit Papneja
30	Rajat Pal
31	POKURI SUDEEP
32	Praveen Naik
33	Deepu George
34	Prateek Mehta
35	Mrityunjay Pandey
36	Amogh Jain S P
37	Siddhaanth S Iyer
38	Srinivas T B
39	Ashwini Sapkal
40	Prateek Jain



41	Umair Ashraf
42	Mainak Chandra
43	Tushar Papnai
44	Aswathy T.S
45	Salomy Varghese
46	Evelyn Elsa Philip
47	Polam Jai sankar
48	Aleesha Rita Sebastian
49	Jeenumol Rose Joseph
50	Ambady Suresh
51	Radha Abhishiktha M
52	Bhavya Thamban
53	Anjali Ann Joseph
54	Komesh yadav
55	Sarmista Biswas
56	Rahul Janardanan
57	Joshua Thomas
58	Dev Maheshwari
59	Jesso Sunny
60	Somya kakra
61	Rishekesh Ramesh
62	K Vinay Kumar
63	Praval Jain
64	Sai Ganesh CS
65	Rajendra Desai
66	Akshita Saini
67	Venkatesh Sharabu
68	Arpan Ganguly
69	Abhinay K Totawar
70	YASH LUCAS
71	Preethi Nanjundan
72	Shivang sahani
73	Swayamshree Mohanty
74	Vaishali Jain
75	Joel Biju Thomas
76	Astha Sharma
77	Akhil Ramakrishnan
78	Shubham Mankar
79	Aniket Batabyal
80	Mohd Ebrar Sheikh
81	Satyaki Kesh
82	Simran Gupta
83	SHAHNA S
84	Raunak Kumar
85	Megha Santosh Bothe



86	Rajan S
87	Sai venkatesh Chilukoti
88	Aryamaan Singh
89	SAOMYA CHAUDHURY
90	Jyothy Jayan
91	Jackson Kavuma
92	Aruparna Maity
93	Subramaniam Mohan
94	PRITHVIRAJ SADANAND TEPUGADE
95	PRATIK DAS
96	Balaji Baburao Somwanshi
97	Mukta Mukesh Nivelkar
98	Rohit Ramakrishnan
99	Anuj Mehrotra
100	Vinaya Mandke
101	Shikhin Mehrotra
102	Habibullah Ahmed
103	Pooja
104	DIGANTA BHATTACHARYYA
105	Sudeep Sagar
106	Aryadeep Das
107	Ardhendu Dey
108	Prashant Pandey
109	Rahul Nagalwade
110	Saptarshi Ghosh
111	Kowsalya P
112	Ashique Shajahan
113	Varshith reddy
114	Unnimaya Nair
115	Lydia Monoi
116	Kanishka Bharadwaj
117	Khushi Gurunani
118	Nandini Sinha
119	Nilanjan Sarkar
120	Ramesh Babu Grandhi
121	Gurudas V R
122	Sharon T Mathew
123	Yash Mishra
124	Yash Vashishtha
125	Anamika Mishra
126	Jay Sahu
127	Nishin James
128	Purvi Jain
129	Harshita Sachdev
130	Aryann Verma



130	pryadarshan singh
132	Sagar Pramanik
133	Anubhav Gang
134	Archana kumari
135	Ravishankar M. Pardi
136	Janvi H
137	JAYASREE C
138	tony james
139	Thanay G N
140	Rishi B. Prajapati
141	Blesson imba Densil
142	Joseph Manoj
143	shivani
144	Anand Laxman Gaikwad
145	Dhruvan Teja Vippari
146	Raju
147	Aradhya Vatsa
148	Sultan Mahmood Zangi
149	Manisha parichha
150	Karthick Selvan M
151	Huma Saeed
152	Yash Gupta
153	Ayesha Mazhar
154	Adrian Martinez Rivas
155	Vee Pansara
156	Nimit Babel
157	Souryajit Mukherjee
158	Azimullah Shahzad
159	Cyriac Rajeev
160	Piyush Talele
161	Kavitha R
162	Bhavesh Prajapati
163	Kalpesh Vilas Mulmule
164	Vijay Srinivas Tida
165	Yug chawla
166	VIKRAM N BAHADURDESAI
167	Adnan A.Durwesh
168	Jawed Alam
169	Priyanka Purohit
170	Darothi Jas
171	Leander Sequeira
172	Rama
173	Joyeta Kundu
174	Harmeet Malik
175	Aditya prajapati



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