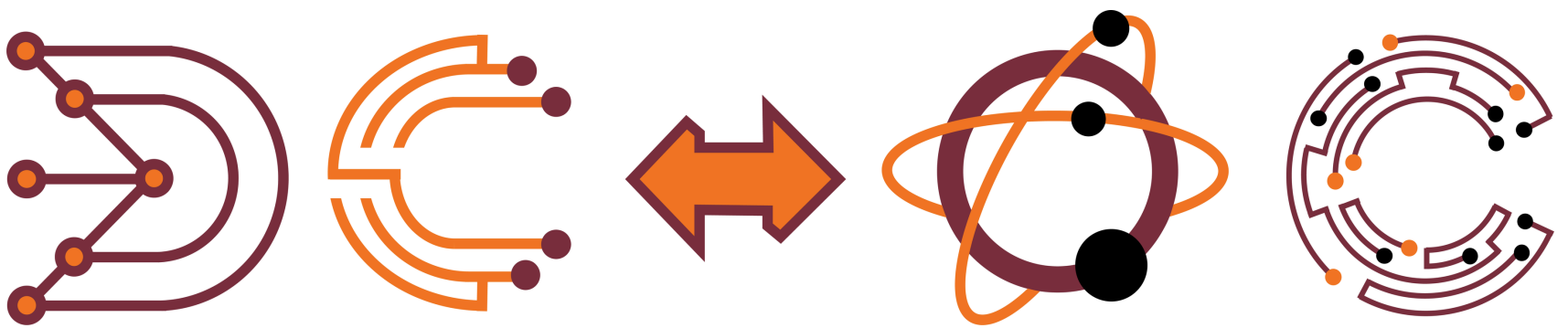




Data-Enabled Computational Engineering and Applied Quantum Computing

QUANTUM COMPUTING: A HANDS ON QUANTUM SINGULAR VALUE TRANSFORMATION (QSVT) WORKSHOP

Friday, October 30, 2026 | 2:00PM - 4:00PM, AME 106

Presented by: Smahane El-Halouy, Postdoctoral Researcher, Department of Mechanical and Aerospace Engineering, Florida Center for Advanced Aero-Propulsion, FAMU-FSU College of Engineering

About Quantum Computing: A Hands on quantum singular value transformation (QSVT) Workhop

In this workshop, we will explain the connections between classical value decomposition (SVD), quantum signal processing (QSP), and QSVT. Participants will progress from matrix concepts to quantum circuits through guided Qiskit tutorials. Finally, we show how to solve a small linear system on a quantum computer and investigate the resources and practical challenges.

What will you learn from this workshop?

- Understand the core ideas of QSVT
- Construct and simulate simple QSP and QSVT circuits
- Solve a small linear system and explore accuracy and resource requirements.

Bring
your
laptop!

Spring 2026 Workshops

February 6	Scientific Python for Engineers	Video
February 13	Research Management: Zotero & Obsidian	Video
February 20	Scientific Python for Engineers (II) Automating Data Analysis and Visualization	
March 6	Applied Machine Learning for Engineers	Video
March 27	Modal Analysis	Video
April 3	Applied CFD (SU2)	Video
April 10	MPI and GPU Programming	Video
April 17	JAX & Automatic Differentiation	Video

Fall 2026 Workshops

September 18	Intro to RCC resources	Video
September 25	Parallel MATLAB on the HPC	Video
October 2	Agentic-OpenFOAM	Video
October 30	Quantum Computing	
November 13	Algorithms for Quantum Computing	
November 20	Intro to Data Visualization in R	

For inquiries about DC-QC workshops, contact Dr. Iago Dal-Ri dos Santos, DC-QC Workshop Coordinator: idalridossantos@eng.famu.fsu.edu

Scan the QR code for more info:



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