

ABIDA MUKARRAM

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PROFESSIONAL SUMMARY

Professor of Computer Science at Sacramento City College teaching a wide range of Computer Science classes. Co-coordinator of the artificial intelligence program and actively engaged in curriculum development in areas of Data Science, Artificial Intelligence and Quantum Information Science. Experienced in multi modal course design and knowledgeable in transferability and articulation processes across the high school through two-year and four-year pathways. Mentor for course design and development to full time and adjunct faculty in computer science. Committed to inclusion, support and success for diverse student populations and created equitable platforms to promote student interest and growth in current and emerging technologies. Successfully created student development programs for high school outreach, and to connect the classroom to industry. Experienced in promoting student leadership, and in organizing events like ACM Future World Symposium on AI, distinguished speaker events, hackathons, technical talks. Mentored industry projects for students in data science and artificial intelligence. Actively support success for high school and transfer students.

EDUCATION

Ph.D.: Computer Science
Oxford University – U.K.

Master of Science: Computer Science,
University of Bombay - Mumbai, India

WORK EXPERIENCE

Professor, Computer Information Science
Sacramento City College, CA

2017- current

- Design course work and teach Data Science CISP357, Data Structures CISP430,
- Discrete Structures CISP440, CISP360, CISP301, Linux Operating System CISC323-24
- Course Design Mentor for adjunct and full-time faculty

Adjunct Instructor, Computer Science
Folsom Lake College and Sierra College, CA

- CISP 300, CISP 401 and Database programming.

Lecturer, Computer Science
California State University, Sacramento, CA

- Java programming at multiple levels. Python programming at CSUS ATS

Paramount Collegiate Academy, CA

- Taught high School Python programming and high school mathematics

Software Developer,

Tata Consultancy Services, India (CMC)

- Worked on Automatic Message Switching System project for Mumbai Airport. Automation of Air Navigation Systems. This was a two-year on-site project of national significance.

AWARDS AND RECOGNITION

- ICI Scholar for Graduate Study at Oxford
- Faculty Fellow in Undergraduate Education at University of California, Berkeley.

PROFESSIONAL DEVELOPMENT

[University of California, Berkeley](#) – Faculty Fellow in Undergraduate Education. 2018-2019
Facilitator for Transforming STEM (Active Learning Online Year Long Faculty Development Program)

[University of California Berkeley](#), National Workshop on Data Science Education, June 2023, June 2022
Developing data science curriculum for community colleges to articulate with UC Berkeley Data Science course Data06, Data08 and Data100.

[Microsoft Certification](#) Azure AI Fundamentals – Oct 2022

[Harvard University](#) (Institute for Applied Computational Studies) Data Science Pedagogy Winter Workshop–
Spring 2021

[California State University, San Marcos](#) - QUEST Faculty Online Learning Community 2021-2022. Participant in a year-long cohort-based faculty learning community with bi weekly meetings focused on developing materials and resources to integrate quantum information technology into undergraduate curriculum.

[California State University, San Marcos](#) - "QUEST: Quantum Undergraduate Education & Scientific Training" Workshop June 2021

[California State University, San Marcos](#)- "Quantum Information Science in the CSU: Week long faculty Workshop June 2023 on Introductory QIST (Quantum Information Science and Technology) Education Modules

[ACUE](#) (American Council of University Educators) Certificate in Effective College Education – 2021- 2022.
One-year program with coursework and implementation projects in the areas of Designing an Effective Course and Class, establishing a Productive Learning Environment, Using Active Learning Techniques, Promoting Active Learning Techniques, Promoting Higher Order Thinking and Assessing to Inform Instruction.

[Moreland University](#) Teaching Certificate in Computer Science and Higher Secondary Mathematics. 2016-2017.
One-year program in computer science education and practice along with credentials for high school.

[OEI Certificate](#) (Online Educational Initiative Course Design Professional Development) – 2018.
120 hours of professional development focused on designing courses aligns to the OEI Course Design Rubric

[ACUE](#) (American Council of University Educators) Micro-credential in Promoting Active Learning Online

[Center for Teaching and Learning Sacramento State University](#) Certification of completion in Online teaching –
Summer 2020

[QM](#) (Quality Matters) Certificate of Completion in IYOC (Improving Your Course Online) – Oct 2020

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Vice President of the professional chapter of the ACM (Association for Computing Machinery) at Sacramento. This charter serves Computer Science professionals and students in four and two year higher educational institutions as well as high schools in the Sacramento area. I help design and host future world symposiums on various aspects of artificial intelligence, created and managed technical workshops and distinguished speaker programs. Also served as mentor to high school and college charters.

Advisor to Folsom Cordova District High School ACM charter. Helped to start the charter and work with Folsom High, Vista Del Lago and other high schools in the FCUSD to promote student events, competitions and summer internship opportunities. Provide high school students with mentorship with career guidance, college selection and dual enrollment opportunities.

Founder and Advisor to the student chapter of the ACM (Association for Computing Machinery) at Los Rios Community College District. Chartered in 2018. Serves four colleges and students from state universities and other educational and professional institutions. Connected students of the Sacramento area to local and global hackathons, invited distinguished speaker programs and cutting-edge technology skill building workshops, including internship opportunities and preparation

Member, ACM2Y A special interest community that offers curriculum guidelines, networking and support for educators and students of 2-year computing programs at the associate-degree level, including Cybersecurity, and Data Science.

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