

Debra Duke

Professor of the Practice and Director of Fundamentals of Computing, Department of Computer Science at VCU College of Engineering

Richmond, VA, US

Professor Duke is a computer scientist focused on learning and engagement strategies

Biography

Debra Duke is a principal investigator on a multi-university study to improve student learning in introductory programming and software development courses through the use of learning engagement strategies, such as problem-based learning, gamification, and social interaction. The team's long-term goal is to provide an adaptive cyberlearning environment that enriches students' conceptual understanding and practical skills. Debra is an avid POGIL practitioner and is a trained POGIL workshop facilitator. POGIL is an acronym for Process Oriented Guided Inquiry Learning. It is a student-centered approach to learning in which small teams of students work together on carefully designed and focused learning activities that enable them to construct important course concepts and cultivate lifelong learning skills.

Areas of Expertise

Computer Science Education

Affiliations

American Society of Engineering Education (ASEE), Association for Computing Machinery (ACM)

Event Appearances

Guiding Students to Discover CS Concepts and Develop Process Skills Using POGIL (Workshop Presenter)

50th ACM Technical Symposium on Computer Science Education

POGIL in Computer Science for Beginners and Experts (Birds of a Feather Speaker)

50th ACM Technical Symposium on Computer Science Education

Education

Virginia Commonwealth University

M.S. Computer Science

University of South Florida

B.S. Clinical Chemistry

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