

Director of Education, Computer Science and Technology Teacher, Curriculum Writer/Consultant
Specializing in Games for Social Causes and Promoting Underrepresented Groups in Technology

EDUCATION

Master of Education

University of Maryland, Specialization in Secondary Science

Bachelor of Science

McGill University, Montreal, Canada

Coursework Major in Biology with Distinction, Specialization in Neurobiology
Minor in Psychology

Certifications

Science and Biotechnology
Technology Education
Health, Physics, Math
Red Cross First Aid, CPR

EXPERIENCE

Director of Education, Code.org

June 2013 to Present

Description Develop and lead a pilot strategy for introducing computer science and professional development into school districts

- Develop target sites and engage with education officials

- Manage budget for professional development

- Develop and evaluate metrics for success

- Lead design of video and lesson resources

- Direct development of online coding environment

- Assist with advocacy in making CS count as a core credit

- Create coalition of CS educators and manage mentorship/volunteer program

Teacher, Montgomery County Public Schools

July 2001 to June 2013

Description Springbrook High School, 2005 – Present

- Computer Science, Science, Class Sponsor, Track and Tennis

- Coach, Robotics Team, Women in Technology Club

Francis Scott Key Middle School, 2001 – 2005

- 8th Grade Science, Resource Teacher, Technology Trainer

Curriculum Consultant, Microsoft Corporation

February 2009 to July 2013

Projects Computer Science Principles: Computation in Action

- Wrote curriculum, conference presentation

Kinect for Education

- Led curriculum team, wrote curriculum, managed social media presence

Kodu, Microsoft Studios

- Wrote NASA Mars Rover lessons, Kodu Math Module, Kodu Touch for Kids

- Advised development team

Personal Achievements

2010 Microsoft Worldwide
Innovative Educator

2010 Microsoft US Innovative
Educator

Featured in American Teacher

Innovative Education Panelist at
NBC Education Nation

Presentations at ISTE, SIGCSE,
MEEC, CSTA, USA Today, NBC
Education Nation

Education Advisory Committee to
Congresswoman Donna Edwards

Microsoft Technology Associate Exam Review Kits, Microsoft Learning
Wrote curriculum for Software Development and Game Development Exams
XNA Game Studio, Developer Platform Evangelism
Wrote XNA 5-week mini-course, Semester 1 and 2 course
Created lesson plans, Video tutorials, Assessments
DigiGirlz Student Camp
Prepared three-day game programming curriculum

Curriculum Reviewer, Pearson/National Academy Foundation

July 2008 to July 2011

Projects Reviewed Introduction to Programming Course and Exam Questions

Curriculum Team Lead/Writer, Montgomery County Public Schools

June 2006 to June 2013

Projects Middle School Information and Communication Technologies Course
Middle School Multimedia Course
High School Designing Technology Solutions Course
High School Advanced Placement Computer Science Course
Led professional development workshops and presentations

Coordinator, New Educator Orientation

May 2006 to August 2012

Description Coordinated the Annual New Educator Orientation, week-long professional development program

Science Teacher, Upward Bound at the Latin American Youth Center

June 2004 to June 2006

Description Taught genetics to low-income, minority students and ran incentive program

Assessment Writer, American Institutes for Research

August 2005

Description Wrote exam items for Ohio State Science Assessment

Tutor

March 2007 to March 2008 Montgomery County Social Services

July 1999 to Sept 2001 Tutorium

Special Education Teacher Assistant, Foundation Schools

August 1999 to June 2000

Description Assisted in classroom instruction and management

Behavioral Assistant in Autism Program, Ivymount School

July 1999 to Sept 1999

Description Implemented behavioral modification program for autistic students

Conference/Panel Presentations

2013

- “The STEM Gap: Focusing on Computer Science” - Microsoft Conversations on Education Panel
- “State of Computer Science” – Montgomery County Education Association Technology Summit
- “A Hidden Gem within STEM: Computer Science” – Social Innovation Summit 2013
- “CS Principles” – Computing Education for the 21st Century Maryland Summit
- “Computation in Action” – Computer Science Teachers Association
- “Computer Science Principles” – Advanced Placement Annual Conference

2012

- “XNA Game Studio” – North Carolina Career and Technology Education Conference
- “Fun, Phone, and the Future” - Special Interest Group Computer Science Education
- “Games for Social Causes” – Texas Computer Education Association, Computer Science Teachers Association
- “Kodu Game Lab” – Games in Education
- “Kodu Game Lab Workshop” – Computer Science Teachers Association

2011

- “Innovative Education” – NBC Education Nation
- “Serious Causes, Serious Computer Science” – Computer Science 4 High School, UMBC
- “XNA Game Studio Workshop” – Computer Science Teachers Association Conference
- “Serious Fun, Serious Computer Science: Microsoft XNA Game Development” – ISTE
- “Games for Good: Multi-Disciplinary Software Used to Create Video Games for Social Causes” - MEEC
- “Exploring STEM Careers” – Congresswoman Edwards 3rd Annual College and Career Fair
- “Teaching Computer Science with C# and XNA Game Studio” - Special Interest Group CS Education

2010

- “Meeting CS Learning Standards Using XNA Game Studio” - International Society for Technology in Education”
- “Imagine: Video Game Software and Hardware as School Equipment” – MD Educational Enterprise Consortium
- “Game Programming with the Microsoft Zune to Promote Women in Technology”
 - Microsoft Worldwide Innovative Educator Forum
 - Maryland Society for Educational Technology

Volunteer Experiences

- Education Advisory Committee to Congresswoman Donna Edwards
- Computer Science Education Pathway Advisory Committee to MD State Dept. of Education
- MCPS JETS Day Outreach to Middle School Students
- Montgomery County Church of Christ Teen Ministry