

DSAIY Advisors



Celeste Bowler, PhD
Assistant
Superintendent
East Providence School
District

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Karen Bryer
Education Specialist
Rhode Island
Department of Education
CS4RI Core Team

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Donna Ottaviano, EdD
Executive Director
East Bay Educational
Collaborative of Rhode
Island

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Joshua Rosenberg, PhD
Associate Professor,
STEM Education
Coordinator, Educational
Data Science Graduate
Certificate Program
The University of
Tennessee, Knoxville
Associate Editor, Journal
of Statistics and Data
Science Education

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David Upegui, PhD
Science Educator
Central Falls High School
Presidential Award for
Excellence in
Mathematics & Science
Teaching

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Celeste Bowler, PhD

Celeste is a career educator with over 25 years of experience in PK -12 education. She has experience in public, private, urban, urban-ring and suburban settings. Celeste has been a teacher and an administrator. For the past eight years she has served as the Assistant Superintendent for the East Providence School Department in East Providence, Rhode Island. Celeste is a member of the Board of Trustees for the New England Association of Schools and Colleges (NEASC) and recently completed a two-year term as the Chair of the Board of Trustees. She is also a governing board member for the Regional Education Lab, Northeast, and the Islands (REL) where she served as board secretary. Celeste has a bachelor's degree in psychology, a master's degree in education with a concentration in Reading, and a Doctorate in Education with a concentration in Language, Literacy, and Culture. She is extremely interested in equity in education and creating opportunities for underserved and often overlooked populations of students.

Karen Bryer

Karen is a career educator currently working in the Office of College and Career Readiness at the Rhode Island Department of Education. She has a Masters in Special Education and one in Instructional Technology, as well as certificates in School Administration and Early Childhood Technology. Karen has a passion for supporting digital equity and ensuring all students are experienced with and have understanding of the technology that is a part of their life and future careers. She is eager to support her community in providing rigorous, equitable educational opportunities.

Donna Ottaviano, EdD

Donna has been the Executive Director of the East Bay Educational Collaborative (EBEC) since August of 2012. She retired as an eight year School Superintendent in North Providence in July of 2012, and had served as Assistant Superintendent, Elementary Principal, and Teacher. She also worked as a Public Health Educator for the state of Rhode Island, RI Department of Health where she trained teachers in thirty-two districts in how to implement a K-3 Health Curriculum into other content areas. In her forty years in education, Dr. Ottaviano specialized in curriculum design and implementation, teacher professional development and instructional strategies that have an impact on student achievement. She has served on numerous committees and is the Past President of the Rhode Island School Superintendents Association and its current Treasurer. She has served on the Rhode Island School Superintendent Association executive board for 22 years. She was selected to serve on the Governors Steering Committee for School Safety in 2006, was the Chair of the Northern Rhode Island Collaborative Executive Board for two terms, and has presented in numerous forums on School Safety and has assisted school districts in developing Emergency Response Plans. As the RI Representative for the Association of Educational Service Agencies, she has presented on school safety, on-line learning topics, legal issues, and ESA's. Dr. Ottaviano has a BA in Elementary Education and History from Rhode Island College, a M. Ed. in Educational Administration, and an Ed. D. in Educational Leadership from Johnson and Wales University.

Joshua Rosenberg. PhD

Joshua M. Rosenberg (PhD, Michigan State University) is an associate professor of STEM education and faculty fellow at the Center for Enhancing Education in Mathematics and Sciences at the University of Tennessee, Knoxville. His research focuses on how learners think of and with data, particularly in science education settings. Professor Rosenberg tries to understand how practices such as creating, representing, and modeling data create new opportunities for learning how to use data to pose and answer questions about scientific phenomena. In addition to how learners think of and with data, Professor Rosenberg is also interested in student engagement across a range of STEM learning environments and the use of technology in education, particularly for teacher professional development. As a part of this work, Professor Rosenberg makes use of quantitative methods, such as multi-level models for analyzing data collected through the experience sampling method, and newer approaches, such as social network analysis to analyze teachers' conversations on social media. Professor Rosenberg has been awarded more than three million dollars in federal grants as principal investigator (PI) or co-PI and has published in outlets such as *Journal of Research in Science Teaching*, *Computers & Education*, and *Teaching and Teacher Education*.

Professor Rosenberg teaches classes in science and STEM education, educational technology, and research methods. In his classes, Professor Rosenberg aims to involve students in authentic practices from the field of study. For example, in teacher education classes, this plays out through giving students opportunities to both participate in as well as plan and enact activities focused upon engaging in scientific and engineering practices. In graduate-level classes, Professor Rosenberg focuses on scholarly practices, particularly critiquing and contributing to ongoing conversations about educational policy and practice. He also teaches data science and statistical methods to students in his research group and in research methods courses, with an emphasis on R.

Research interests: Science education, science teacher education, data science education, computer science education, computational research methods

<https://makingdatasciencecount.com> <https://joshuamrosenberg.com>

PI, CAREER: Creatively Reimagining Engagements with Data in Biology Learning Environments (NSF Grant No. [2239152](#))

David Upegui, PhD

[PBS Digital Innovator Winner](#)

David Upegui (he/him/his) is a Latino immigrant who found his way out of poverty through science. He is a science teacher at his alma mater, Central Falls High School and serves as an adjunct professor of Education. He received the [Presidential Award for Excellence in Mathematics and Science Teaching in 2019](#) (2017 cohort), the NABT's Evolution Education Award: 2014, RIC Alumni Honor Roll Award: 2014, Amgen Award for Science Teaching Excellence: 2013, Latino Public Radio Outstanding Achievement: 2013, and RI Department of Education Golden Apple: 2012. He started the Science Olympiad team and created multiple academic opportunities for students to engage in science in and out of the classroom. He completed his doctoral degree in education, focusing on science education and social justice.

Fun Fact: "Music and storytelling are big parts of my life and I have been lucky enough to do both regularly."

[Boston Globe](#) *The role of teachers? 'To empower students to recognize that the world needs their talents.'*

"I would want teachers to remember that what we do is not frivolous and it's not superficial," he said. "Through science or whatever subject you're teaching, you are empowering the students to take their rightful place in society."

[From Dr. Upegui's Science Classes](#)

Out of all the awards and accolades, none are more important than the visits of my students and the encouragement of my own children and family. Over the years I have seen wonderful events happen - students finding success and sharing their lives/talents with others.

I have the privilege of teaching the best students in the world, the students from Central Falls High School (all are truly welcomed).

I also get to keep expanding my ideas as a doctoral researcher and academic as I focus on: Critical Pedagogy, Mixed Methodology, Science Education and Social Justice.

Lastly, I seek to figure out how to best develop my skills and how to best share what I have been given with the world.

Like all of us, I am a teacher, a student, and a seeker.

Here are some short writings about my ideas in education:

Treating Students with Dignity

<http://www.educationresourcesconsortium.org/news/2018/1/4/treating-students-with-dignity>

Latinos Are More Than Tacos, Sports and Music. We Are Also America.

<http://educationpost.org/latinos-are-more-than-tacos-sports-and-music-we-are-also-america/>

We need more Latino teachers.

<http://www.providencejournal.com/article/20151030/OPINION/151039954>

White House Initiative:

<https://sites.ed.gov/hispanic-initiative/2015/09/latinosteach-recognizing-david-upegui/>