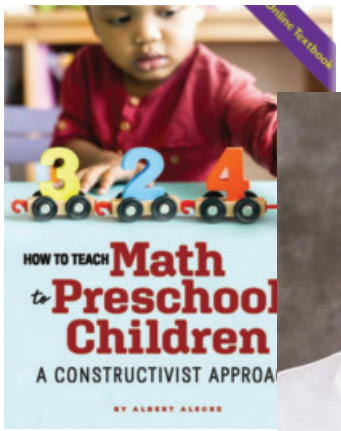
PUBLISHED BOOKS
BY MEMBERS OF THE ACADEMIC COMMUNITY

ALBERTO ALEGRE
College of Education/Early Childhood and Elementary Education

How to Teach Math to Preschool Children: A Constructivist Approach

Published by Sentia Publishing Company

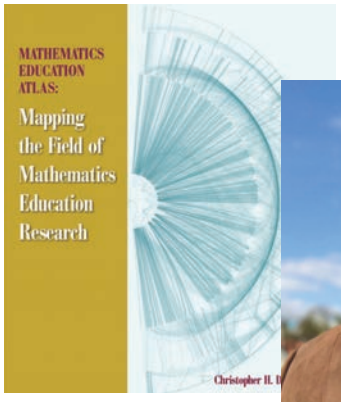


This book is aimed at preschool teachers and education students. It explains how to teach preschool children math in a child-centered, hands-on, adventure-based, fun way. The book offers specific teaching methods for preschool teachers based on play, exploration, and facilitation by adults. It also provides a range of math activities grounded on the children's interests in games, stories, adventures, music and movement, arts and crafts, and explorations of natural phenomena. These methods use developmentally appropriate and scientifically based practices and increase children's attention, exploration, and elaboration.

CHRISTOPHER DUBBS
College of Arts and Sciences/Mathematics

Mathematics Education Atlas: Mapping the Field of Mathematics Education Research

Published by Crave Press



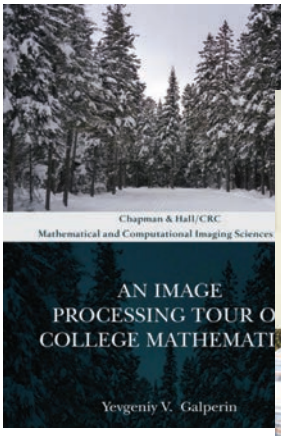
The field of mathematics education is the product of many people writing around some (disparate) ideas that have congealed into the semblance of a thing that looks solid, that looks fixed. The field is, however, a foam: a volatile substance made from many bubbles (foci) emerging, popping, merging, and splitting. Following in the genealogical tradition of Michel Foucault, Dubbs looks back at the emergence of this field called mathematics education research to trace the emergence of foci of study. By looking at those articles published between 1970 and 2019 in the Journal for Research in Mathematics Education (JRME), as well as those published since 2010 in for the learning of mathematics (flm) and Educational Studies in Mathematics (ESM), the results of this citation network analysis show that the foci of the field have not been fixed nor is there consensus around so-called proper foci today. This fluid and dissensual nature of the evolving field gives hope. What mathematics education research is today is not a natural inevitability, but the product of human action, the collision of incident, orthogonal, and/or opposite forces, and while its trajectory is tied to its origins, it is not tied to it deterministically. The field of mathematics education research, as it has been, limits what we can say is mathematics education research, see as counting as mathematics education research, think as mathematics education, and do in the name of mathematics education research. These limits on what can be seen, said, thought, and done in the name of mathematics education research, what is (non)sensical, constitute a distribution of the sensible. This book serves as an outline and perturbation of those sensible limits.

YEVGENIY GALPERIN

College of Arts and Sciences/Mathematics

An Image Processing Tour of College Mathematics

Published by Chapman and Hall/CRC Press



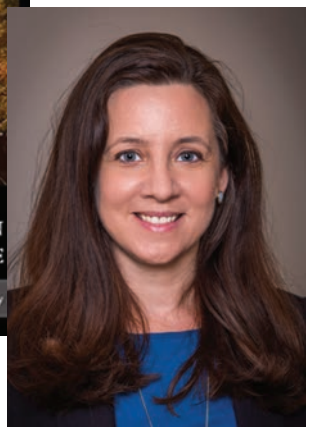
An Image Processing Tour of College Mathematics aims to provide meaningful context for reviewing key topics of the college mathematics curriculum, to help students gain confidence in using concepts and techniques of applied mathematics, to increase student awareness of recent developments in mathematical sciences, and to help students prepare for graduate studies. The topics covered include a library of elementary functions, basic concepts of descriptive statistics, probability distributions of functions of random variables, definitions and concepts behind first- and second-order derivatives, most concepts and techniques of traditional linear algebra courses, an introduction to Fourier analysis, and a variety of discrete wavelet transforms – all of that in the context of digital image processing.

MARGARET MULLAN

College of Arts and Sciences/Communication

Seeking Communion as Healing Dialogue: Gabriel Marcel's Philosophy for Today

Published by Lexington Books



Seeking Communion as Healing Dialogue: Gabriel Marcel's Philosophy for Today discusses society's problems with interpersonal communication, arguing that these issues are more deeply rooted in problems in being. Mullan draws on the work of Gabriel Marcel to explore the meaning of body, of being with, and of being at all in today's world, answering questions about why we are often unable to dialogue with the people around us, why we feel disconnected and alone even in an increasingly technological world, and how these changing technologies expose and sometimes exacerbate our weak connections to others. Engaging Marcel's reflective method and theory of communion, Mullan explores how we seek communion amid technology and proposes that Marcel's reflections are generative contributions to the understanding and study of communication, offering a way to seek healing dialogue in present day. Scholars of communication, philosophy, conflict studies, and media studies will find this book particularly useful.

Dr. Mullan was awarded a prestigious prize for her book - Top Single Authored Book of the Year award for the National Communication Association, Communication Ethics Division.