Record Nr.	UNINA9910483905903321
Titolo	A Project-Based Guide to Undergraduate Research in Mathematics : Starting and Sustaining Accessible Undergraduate Research / / edited by Pamela E. Harris, Erik Insko, Aaron Wootton
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2020
ISBN	3-030-37853-5
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XI, 324 p. 142 illus., 81 illus. in color.)
Collana	Foundations for Undergraduate Research in Mathematics, , 2520-1212
Disciplina	510
Soggetti	Combinatorics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Folding Words Around Trees: Models Inspired by RNA Phylogenic Networks Tropical Geometry Chip Firing Games and Critical Groups Counting Tilings by Taking Walks in a Graph Beyond Coins, Stamps, and Chicken McNuggets: an Invitation to Numerical Semigroups Lateral Movement in Undergraduate Research: Case Studies in Number Theory Projects in (t,r) Broadcast Domination Squigonometry: Trigonomtry in the p-norm Researching in Undergraduate Mathematics Education Possible Directions for Both Undergraduate Students and Faculty Undergraduate Research in Mathematical Epidemiology.
Sommario/riassunto	Unsure of where to begin on mathematical research? This volume provides accessible and self-contained research problems designed for undergraduate student projects, and simultaneously promotes the development of sustainable undergraduate research programs. The chapters in this work span a variety of topical areas of pure and applied mathematics and mathematics education. Each chapter gives a self- contained introduction on a research topic with an emphasis on the specific tools and knowledge needed to create and maintain fruitful research programs for undergraduates. Some of the topics discussed include: • Disease modeling • Tropical curves and surfaces • Numerical semigroups • Mathematics Education This volume will primarily appeal to undergraduate students interested in pursuing research projects and

1.

faculty members seeking to mentor them. It may also aid students and faculty participating in independent studies and capstone projects.