## **Journal of Humanistic Mathematics**

Volume 12 | Issue 1 January 2022

### **Front Matter**

Follow this and additional works at: https://scholarship.claremont.edu/jhm



Part of the Arts and Humanities Commons, and the Mathematics Commons

### **Recommended Citation**

"Front Matter," Journal of Humanistic Mathematics, Volume 12 Issue 1 (January 2022) . DOI: 10.5642/ jhummath.202201.01. Available at: https://scholarship.claremont.edu/jhm/vol12/iss1/1

©2022 by the authors. This work is licensed under a Creative Commons License. JHM is an open access bi-annual journal sponsored by the Claremont Center for the Mathematical Sciences and published by the Claremont Colleges Library | ISSN 2159-8118 | http://scholarship.claremont.edu/jhm/

The editorial staff of JHM works hard to make sure the scholarship disseminated in JHM is accurate and upholds professional ethical guidelines. However the views and opinions expressed in each published manuscript belong exclusively to the individual contributor(s). The publisher and the editors do not endorse or accept responsibility for them. See https://scholarship.claremont.edu/jhm/policies.html for more information.

# The Journal of Humanistic Mathematics

## JANUARY 2022

## ISSUE CONTENTS

### Editorial

Seeing Mathematics and Seeing Mathematicians	Mark Huber and Gizem Karaali	1		
Articles				
Intersection Cographs and Aesthetics	Robert Haas	4		
Plane Figurate Number Proofs Without Words Explained With Pattern Blocks	Gunhan Caglayan	24		
Makers Do Math! Legitimizing Informal  Mathematical Practices Within Making Contexts	Amber Simpson and Signe Kastberg	40		
Middle School Students Generating Mathematical Problems from a Real-life Situation	David Coffland and Ying Xie	76		
Happiness in Mathematics Education:  The Experiences of Preservice Elementary Teachers	Jeffrey Pair and Kent Dinh	98		
Teiresias, Proportions, and Sexual Pleasure	Spyros Missiakoulis	118		
Thematic Folder: Math in the	ne Time of COVID			
A Mother-Mathematician Meets the COVID-19 Era	Bonnie Jacob	130		
Nilpotents Leave No Trace: A Matrix Mystery for Pandemic Time	es Eric L. Grinberg	139		
Unmotivated, Depressed, Anxious:  Impact of the COVID-19 Emergency Transition to Remote Learning on Undergraduates' Math Anxiety	Melinda Lanius, Tiffany Frugé Jones, Samantha Kao, Tynan Lazarus, and Alex Farrell	148		
Mindfully Navigating the Wind and Water:  Defining the Currents of Metaphors that Interfere with Excellence in Mathematics Education	Rob Blom, Olivia Lu, and Chunlei Lu	172		
The Hamster Diaries	Pamela B. Pierce	180		
Teaching Preservice Teachers in the Time of COVID What's Worth Keeping?	Kathy Liu Sun, Jennifer L. Ruef, Kathleen Jablon Stoehr, and Madeline Ahearn	187		
COVID-19, Vaccines, and Decision Theory	Michael A. Lewis	210		
Mathematics of Social Distancing	Robert Haas	217		
Navigating A Calculus Course During a Pandemic: A USMA Perspective	Shane K. Smith, Tyson H. Walsh, and Lee Evans	219		

# The Journal of Humanistic Mathematics

## JANUARY 2022

## ISSUE CONTENTS — continued

### Report

•				
Extremal Mathematicians	Carlos A. Alfaro	238		
Exposition				
In Search of Star Clusters:  An Introduction to the K-Means Algorithm	Marcio Nascimento	243		
World of Mathematics				
A Note on a Mathematician-Cyclist: Anna Kiesenhofer	Man Keung Siu	256		
Lessons Learned from the Disorder of Operations	Egan J. Chernoff	260		
An Amends Letter From a Recovering Mean Professor	Feryal Alayont	277		
The Problem of Words: Learning to Teach Mathematics When Numbers and Languages Mix	Gladys Krause	281		
Accidental World Teacher	Richard Delaware	295		
The Nature of Numbers: Real Computing	Bradley J. Lucier	317		
Alice's Adventures in $Wonderland$ : Carroll's Symbolic Attack of Mathematical Symbolism	Firdous Ahmad Mala	348		
Twisting the Cube: Art-Inspired Mathematical Explorations	Lingguo Bu	352		
A Cognitive View of "Pandemic Meditation" (A Mathematical Visual Poem)	Kazmier Maslanka	366		
Activity				
Decisions, Decisions: How Should The Votes Be Counted?	Michael J. Caulfield	387		
Interview				
Life of a Working Ramsey Theorist: A Conversation With Thomas C. Brown	Kyle Singh, Veselin Jungic, and Jun Bo Mei	399		
Perspectives				
A Reflection on Growth Mindset and Meritocracy	Rachel L. Petrik, Julianne Vega, and Andrés R. Vindas-Meléndez	408		
An Urgent Plea for More Graduate Programs in Statistics Education	ation David Eli Drew, Sam Behseta, and Cherie L. Ichinose	422		

# The Journal of Humanistic Mathematics

## JANUARY 2022

## ISSUE CONTENTS — continued

### ${\bf Perspectives - continued}$

Mathematics for the Masses: Door-to-Door Missionaries of Mathematics and Twelve-Step Recovery Programs	Daniel S. Helman	428		
Book Review				
Book Review: Reckonings: Numerals, Cognition, and History by Stephen Chrisomalis	Milton Rosa and Daniel Clark Orey	443		
Poetry Folder				
Poetry in the Glade: Bridges 2021 Fib Collection		467		
Poetry				
What's So Great About Non-Orientable Manifolds?	Michael McCormick	501		
Wrong Way	Joseph Chaney	502		
The Solipsist's First Paper	Sabrina Sixta	503		
Heuristic or Stochastic?	E Laura Golberg	504		
So Long My Friend	Bryan McNair	505		
Fiction				
A Non-Euclidean Story or: How to Persist When Your Geometry Doe	sn't Rami Luisto	506		
Announcement				
Special Issue Call for Papers: Mathematics and Society	Carrie Diaz Eaton, Rachel Roca, Nancy Rodriguez, and Tian An Wong	557		
Journal for Mathematics and the Arts Special Issue Call for Papers: Mathematics of Fiber Arts	Carolyn Yackel & sarah-marie belcastro	560		

#### Editors

Mark Huber Claremont McKenna College, USA

Gizem Karaali Pomona College, USA

#### Editorial Advisory Board

Andrea Albrecht University of Stuttgart, Germany

Stephen I. Brown University at Buffalo, USA

Larry Copes Institute for Studies in Educational Mathematics, USA
Carl Cowen Indiana University-Purdue University Indianapolis, USA

Joseph Dauben CUNY, USA

Chandler Davis University of Toronto, Canada Philip J. Davis Brown University, USA

David Drew Claremont Graduate University, USA

Ed Dubinsky Kent State University, USA Paul Ernest University of Exeter, UK

Joseph Gallian University of Minnesota Duluth, USA

Judith Grabiner Pitzer College, USA Jeremy Gray Open University, UK

Emily R. Grosholz Pennsylvania State University, USA

Rochelle Gutierrez University of Illinois, Urbana-Champaign, USA

Gila Hanna University of Toronto, Canada

James Henle Smith College, USA

Reuben Hersh University of New Mexico, USA

Roger E. Howe Yale University, USA

George Gheverghese Joseph University of Manchester, UK Sandra Keith St. Cloud State University, USA

Steven Krantz Washington University in St. Louis, USA

Philip Kutzko University of Iowa, USA

Paolo Mancosu University of California, Berkeley, USA

William McCallum University of Arizona, USA Sal Restivo University of Ghent, Belgium

Joan Livingstone Richards Brown University, USA

Man Keung Siu University of Hong Kong, China

T. Christine Stevens St. Louis University, USA

Jean Paul van Bendegem Vrije Universiteit Brussel, Belgium

William Y. Velez University of Arizona, USA

### EDITORIAL POLICY

The Journal of Humanistic Mathematics provides an open forum for both academic and informal discussions on the various threads of mathematical inquiry. The focus of submitted papers should be on the aesthetic, cultural, historical, literary, pedagogical, philosophical, psychological, and sociological aspects of doing, learning, and teaching mathematics. Authors should keep in mind that the Journal intends to publish work that appeals to a general mathematical audience. This includes people who are seriously interested in mathematics, but may come from a variety of backgrounds both within and beyond academia.

We hope to serve the whole mathematical community and we wish to encourage the development and sustenance of an equitable and welcoming environment for all individuals, independent of their status within and relationship to the community. Occasionally some of our content might make some readers uncomfortable. We welcome reader responses to content that provokes disagreement.

The author(s) of each article / work that appears in this Journal is / are solely responsible for the content thereof. The publication of an article shall not constitute or be deemed to constitute any representation of the views and opinions of the Editors or the Journal. This also applies to the actions and attitudes depicted in works of fiction and poetry. In general, publication in JHM does not imply the endorsement of individual authors' behaviors, philosophical stances, or ideological perspectives.

For more information, please see our Aims and Scope page at https://scholarship.claremont.edu/jhm/aimsandscope.html.

Website

http://scholarship.claremont.edu/jhm/