

9th International Mathematics Education and Society Conference (MES9)

MES9 Conference Papers List

7th April, Saturday		<i>click the link below to download the paper</i>
14:00 - 17:00 Registration		
17:00 Opening		
8th April, Saturday		
8:45 Plenary		
	1 Mathematical Futures: Discourses of Mathematics in Fictions of the Post 2008 Financial Crisis Heather Mendick	Download
	2 The Effects of Mathematics Education Discourse: A Dialogue with Mendick's Work Gelsa Knijnik	Download
	3 Saying 'No' to Mathematics: A response to Heather Mendick's 'Mathematical Futures' David Kollosche	Download
14:00 - 16:00 Parallel Presentations		
Unpacking Dominant Discourses		
	4 Historicizing "Math For All" Ayşe Yolcu	Download
	5 Bildung, Mathematical Literacy and Civic Education: The (Strange?) Case of Contemporary Austria and Germany Andreas Vohns	Download
	6 Old and New Naturalized Truths in Mathematics Education Panagiotis Spyrou, Andromachi Karagiannidou, Villy Michelakou	Download
	7 Gamification, Standards and Surveillance in Mathematics Education: An Illustrative Example Eva Jablonka	Download
Race, Class, Caste		
	8 Researching "Race" without Researching White Supremacy in Mathematics Education Research: A Strategic Discursive Practice David Stinson	Download
	9 Working Class, Intelligentsia and the "Spirit of Generalization" Bronislaw Czarnocha	Download
	10 Beyond Poverty and Development: Caste Dynamics and Access to Mathematics Education in India Jayasree Subramanian	Download
	11 Examining Relations Between Students' Perception of "Being Known" and their Mathematics and Racial Identities Tanner Wallace, Charles Munter	Download
Mathematical Temporalities		
	12 Multimathemacy: Time to Reset? Karen François, Rik Pinxten	Download
	13 Thinking Forward: Using Stories From the Recent Past in Mathematics Education in England Hilary Povey,	Download

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Gill Adams

- 14 When an Education Ideology Travels: The Experience of the New Math Reform in Luxembourg **Shaghayegh Nadimi (Chista)** [Download](#)
- 15 Assembling MathLife Chronotopes **Anna Chronaki** [Download](#)

Mathematics in Higher Education

- 16 College Instructors' Attitudes Toward Statistics **Hyung Won Kim, Xiaohui Wang, Bongju Lee, Angelica Castillo** [Download](#)
- 17 Moving Up or Down the Ladder: University Mathematics Students Talk About Progress **Kate le Roux** [Download](#)
- 18 An Empirical Study into Difficulties Faced by 'Hindi Medium Board Students' in India at Undergraduate Mathematics and its Social Implications **Kumar Gandharv Mishra, Jyoti Sharma** [Download](#)
- 19 Working with Peers as a Means for Enhancing Mathematical Learning at University Level: Preliminary Investigation of Student Perceptions **Marios Ioannou** (project) [Download](#)

Symposium

- 20 Ethnomathematics Meets Curriculum Theory through Crisis **Peter Appelbaum, Charoula Stathopoulou, Milton Rosa, Daniel Clark Orey, Samuel Edmundo Lopez Bello, Dalene Swanson, Franco Favilli, Fiorenza Toriano, Robert Klein, Miriam Amrit** [Download](#)

Symposium

- 21 Majority Counts: What Mathematics for Life, to deal with Crises? **Brian Greer, Rochelle Gutierrez, Eric Gutstein, Swapna Mukhopadhyay, Anita Rampal** [Download](#)

16:30 - 18:30 Parallel Presentations

The Neoliberal Teacher

- 22 What is Desired and the Governing of the Mathematics Teacher **Alex Montecino** [Download](#)
- 23 Fears and Desires: Researching Teachers in Neoliberal Contexts **Lisa Darragh** (project) [Download](#)
- 24 Be the Best Version of your Self! OECD'S Promises of Welfare through School Mathematics **Melissa Andrade-Molina** [Download](#)
- 25 Competence-Based Teacher Education – Revisited **Johanna Ruge** [Download](#)

Equity Reconsidered

- 26 Equity in a College Readiness Math Modelling Program: Limitations and Opportunities **Susan Staats, Douglas Robertson** [Download](#)

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- 27 Macroinclusion and Microexclusion in Mathematics Education **Ana Carolina Faustino, Amanda Queiroz Moura, Guilherme Henrique Gomes da Silva, João Luiz Muzinatti, Ole Skovsmose** [Download](#)
- 28 Resolving Challenges when Teaching Pre-Service Mathematics Teachers through a Lens of Equity **Laura McLeman, Eugenia Vomvori-Ivanović** (project) [Download](#)

Identity Urgencies

- 29 Identity Change Through Inner and Outer Driving Forces for Studying Mathematics in the Swedish Prison Education Program **Ola Helenius, Linda Ahl** (project) [Download](#)
- 30 Sociopolitical Mathematics Teacher Identity: Mathography as Window **Emma Carene Gargroetzi, Brian Lawler** (project) [Download](#)
- 31 The Relevance of Pre-Service Teachers' Funds of Knowledge in their Adaptations of Mathematics Lessons **Carlos LópezLeiva** (project) [Download](#)
- 32 Academic Agency: A Framework for Responsibility **Lisa Poling, Tracy Goodson-Espy** [Download](#)

Developing Activity, Tasks and Creativity

- 33 Development and Contextualization of Tasks from an Ethnomathematical Perspective **Veronica Albanese, Natividad Adamuz-Povedano, Rafael Bracho-López** [Download](#)
- 34 Creative Insubordination Aspects Found in Ethnomodelling **Milton Rosa, Daniel Clark Orey** [Download](#)
- 35 When Geometry Meets the Language of Arts: Questioning the Disciplinary Boundaries of a School Curriculum **Panagiota Kotarinou, Eleni Gana, Charoula Stathopoulou** [Download](#)

Symposium

- 36 Race, Racism, and Mathematics Education: Local and Global Perspectives **Luz Valoyes-Chávez, Danny Martin, Joi Spencer, Paola Valero, Anna Chronaki** [Download](#)

Symposium

- 37 "Crisis" and Interface with Mathematics Education Research and Practice: An Everyday Issue **Aldo Parra, Arindam Bose, Jehad Alshwaikh, Magda González, Renato Marcone, Rossi D'Souza** [Download](#)

21:30 Mujaawarah

- 38 Mujaawarah: Being Together in Wisdom or Reclaiming Life for Mathematics Proposal for an Open Forum **Munir Fasheh, Yasmine Abtahi, Anna Chronaki** [Download](#)

9th April, Sunday

8:45:Plenary

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- 39 Biosocial Becomings: Rethinking the Biopolitics of Mathematics Education Research **Elisabeth de Freitas** [Download](#)
- 40 Neuronal Politics in Mathematics Education **Karen François** [Download](#)
- 41 Re-experiencing Emotions in the Biosocial Space of Mathematics Education **Andreas Moutsios-Rentzos, Panagiotis Spyrou** [Download](#)

14:00 - 16:00 Parallel Presentations

Ideology and the Subject

- 42 The Ideology of Relevance in School Mathematics **David Kollosche** [Download](#)
- 43 The Repression of the Subject? - Quilting Threads of Subjectivization **Felix Lensing** [Download](#)
- 44 The Subject of Mathematics Education Research **Alexandre Pais** [Download](#)

Children, Policies, Politics

- 45 Where are the Children? An Analysis of News Media Reporting on Mathematics Education **Yasmine Abtahi, Richard Barwell** [Download](#)
- 46 Fabrication of Newly Arrived Students as Mathematical Learners in Swedish Policy **Eva Norén, Petra Svensson Källberg** [Download](#)
- 47 The Construction of the Mathematical Child in Swedish Preschool **Laurence Delacour** (project) [Download](#)
- 48 Social Aspects of Undergraduate Mathematics Students' Learning: Preparing for The Coursework **Marios Ioannou** [Download](#)

Discourses of Dis/Ability

- 49 Ableism in Mathematics Education: Ideology, Resistance and Solidarity **Rossi D'souza** [Download](#)
- 50 From Policy to Practice: Discourses of Mastery and "Ability" in England **Candia Morgan** [Download](#)
- 51 'Sets 4 and 5 Were Stuffed Full of Pupil Premium Kids': Two Teachers Experiences of 'Ability' Grouping **Colin Jackson** [Download](#)

Social Justice Revisited

- 52 Coming to Understand the Big Issues: Remaking Meaning of Social Justice Through Mathematics Across the School Year **Frances Harper** [Download](#)
- 53 Teaching Mathematics for Social Justice: Transforming Classroom Practice **Pete Wright** [Download](#)
- 54 Challenges in Dealing with Social Justice Concerns in Mathematics Classrooms **Shikha Takker** [Download](#)

Symposium

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- 55 Neoliberalism: A Crisis for Mathematics Education? **Lisa Darragh, Lisa Björklund Boistrup, Paola Valero, Lisa Darragh, Gill Adams, Hilary Povey** [Download](#)
- Symposium
- 56 Ethnomathematics Meets Curriculum Theory through Crisis **Peter Appelbaum, Charoula Stathopoulou, Milton Rosa, Daniel Clark Orey, Samuel Edmundo Lopez Bello, Dalene Swanson, Franco Favilli, Fiorenza Toriano, Robert Klein, Miriam Amrit** [Download](#)
- Poster Session
- 57 Why Do We Need Them to Be Different Low Achieving Children’s Conceptions of Unit Fraction **Jessica Hunt, Arla Westenskow, Patricia Moyer-Packenham** [Download](#)
- 58 Math, Social Justice, and Prospective Teachers in U.S.A. and Uruguay: Learning Together **Paula Guerra, Woong Lim, Raisa Lopez** [Download](#)
- 59 Enhancing Students Quantitative Literacy Skills: Using Google Drive as a Collaboration Tool for Interactive Online Feedback **Michelle Henry, Jumani Clarke, Sheena Rughubar-Reddy, Ian Schroeder** [Download](#)
- 60 Doing Research with Teachers: Ethical Considerations that Shaped the Researcher Stance **Annie Savard** [Download](#)
- 61 Mathematical Fiction in Education: Text in Action **Eleni Kontaxi, Stella Dimitrakopoulou** [Download](#)
- 62 AnthroGeometries in the UrbanScape: Interrogating the Echo of Geometry **Anna Chronaki, Chrysa Papasarantou, Irene Lazaridi, Efi Manioti, Magda Koumparelou, Giorgos Giannikis** [Download](#)
- 16:30 - 18:30 Parallel Presentations
- Ethical Encounters in the Field
- 63 Diversity in Meanings as an Issue in Research Interviews **Helena Grundén** [Download](#)
- 64 Tensions and Dilemmas as Source of Coherence **Jehad Alshwaikh, Jill Adler** [Download](#)
- 65 How Local are Local People? Beyond Exoticism **Eric Vandendriessche, José Ricardo e Souza Mafra, Maria Cecilia Fantinato, Karen François** [Download](#)
- Learners in their Social Contexts
- 66 Investigating Parental Influences on Sixth Graders’ Mathematical Identity: The Case of Attainment **Sonia Kafoussi, Andreas Moutsios-Rentzos, Petros Chaviaris** [Download](#)
- 67 What is the Role of Value Alignment in Engaging Mathematics Learners? **Penelope Kalogeropoulos, Alan Bishop** [Download](#)
- 68 Love and Bullying in Mathematical Conversations **Annica Andersson, David Wagner** [Download](#)

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69	Social Inquiry with Mathematics in two High School Classrooms Anastasia Brelia	Download
Teachers Professional Growth		
70	Pedagogical and Mathematical Capital: Does Teacher Education Make a Difference? Robyn Jorgensen (Zevenbergen), Tom Lowrie	Download
71	Mathematics Teacher Professional Development Toward Equitable Systems: Weaving Together Mathematics, Discourse, Community, Positionality, and Action Research Ashley Scroggins, Beth Herbel-Eisenmann, Frances Harper, Tonya Bartell	Download
72	Mathematics Teachers' Professional Learning Iben Christiansen, Kicki Skog, Sarah Bansilal (project)	Download
Gender, Power, Mathematics		
73	Recrafting Manipulatives: Toward a Critical Analysis of Gender and Mathematical Practice Melissa Gresalfi, Katherine Chapman	Download
74	Understanding Relations of Power in the Mathematics Classroom: Explorations in Positioning Theory Jennifer Langer-Osuna, Maxine McKinney de Royston	Download
75	Performing Girl and Good at Mathematics: Scripts in Young Adult Fiction Lisa Darragh (project)	Download
Symposium		
76	Beyond the Box: Rethinking Gender in Mathematics Education Research Margaret Walshaw, Anna Chronaki, Luis Leyva, David Stinson, Dalene Swanson, Kathy Nolan, Heather Mendick	Download
Symposium		
77	Inside Critical/Radical Mathematics Education: A Video Exploration Maisie Gholson, Patricia Buenrostro, Lindsey Mann, Eric Gutstein, Mark Hoover	Download
10th April, Monday		
8:45:Plenary		
78	From 'isms' Groups to Justice Communities: Intersectional Analysis and Critical Mathematics Education Erica Bullock	Download
79	Mathematics Education and the Matrix of Domination Paola Valero	Download
80	Reaching across to a parallel universe below: The promise of Justice communities for researching caste in mathematics education Jayasree Subramanian	Download
11th April, Tuesday		
8:45:Plenary		

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- 81 'Numbers Have the Power' Or the Key Role of Numerical Discourse in Establishing a Regime of Truth about Crisis in Greece **Dimitris Chassapis** [Download](#)
- 82 Mathematical language in the political discourse: epistemological and educational reflections emerged from Dimitris Chassapis' conference plenary **Fragkiskos Kalavasis** [Download](#)
- 83 Response to Dimitris Chassapis' paper "Numbers have the power" or the key role of numerical discourse in establishing a regime of truth about crisis in Greece. **Alexandre Pais** [Download](#)
- 14:00 - 16:00 Parallel Presentations**
- Crisis, Education, Mathematics**
- 84 On the Entanglement of Mathematics Remediation, Gatekeeping, and the Cooling-Out Phenomenon in Education **Gregory Larnell** [Download](#)
- 85 No, we didn't Light it, But we Tried to Fight it: Acknowledging and Connecting an Acute Crisis **Jeffrey Craig, Lynette Guzmán** (project) [Download](#)
- 86 Mathematics and Human Flourishing **Samuel Luke Tunstall** [Download](#)
- Critical Mathematics Education and Social Inquiry**
- 87 Using CME to Empower Prospective Teachers (and Students) Emerge as Mathematical Modellers **Nirmala Naresh, Lisa Poling, Tracy Goodson-Espy** [Download](#)
- 88 Categories of Critical Mathematics Based Reflections on Climate Change **Peter Gøtze, Ragnhild Hansen, Kjellrun Hiis Hauge, Lisa Steffensen** [Download](#)
- 89 Extending the Landscapes of Mathematical Investigation through Philosophical Inquiry **Nadia Stoyanova Kennedy** [Download](#)
- 90 Empowering Students in Citizenship: Teaching Mathematics and Learning Financial Concepts **Annie Savard** (project) [Download](#)
- Space(s) for Mathematical Experience**
- 91 Reconfiguring Mathematical Settings and Representations Through Whole-Body Collaboration **Jasmine Ma, Molly Kelton** [Download](#)
- 92 Social Nature of Mathematical Reasoning: Problem Solving Strategies of Middle Graders' with Diverse Out-of-School Experience **Arindam Bose** [Download](#)
- 93 The Shape of Taping Shape: Visitor Experiences with an Immersive Mathematics Exhibition **Molly Kelton, Bohdan Rhodehamel, Cierra Rawlings, Patti Saraniero, Ricardo Nemirovsky** (project) [Download](#)

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Discussion Group		
94	Assessing and Accessing Learning Experiences of Refugee Students and Teachers Anna Jobber, Anna Chronaki, Christine Knipping, Lena Anderson, Peter Bengston, Efthalia Balla, Eirini Lazaridou, Olga Ntasioti, Eirini Avgoustaki, Ismini Sotiri, Dalene Swanson, Nuria Planas, Candia Morgan	Download
Symposium		
95	Ethnomathematics and Reconciliation Lisa Lunney Borden, David Wagner	Download
16:30 - 18:30 Parallel Presentations		
First Nation, Indigenous People, Rural Communities		
97	Reflections on Pedagogy in a Remote Indigenous Community Dianne Siemon	Download
98	Mathematics Learning and Social Background: Studying the Context of Learning in a Secondary School in a Semi Rural Area of Maharashtra Varsha Sadafule, Maxine Berntsen	Download
99	Prioritizing Visual Spatial Mathematical Approaches in First Nation Early Years Classrooms Joan Moss, Bev Caswell, Zachary Hawes, Jason Jones	Download
100	Developing 'Quality' Teachers in Remote Indigenous Contexts: Numeracy Leaders Robyn Jorgensen (Zevenbergen)	Download
Dialogue, Mathematising, Thinking		
101	"How did you get to that Result?": The Process of Holding a Dialogue in Math Classes of the Early Years of Primary School Ana Carolina Faustino (project)	Download
102	Strengthening the Ways of Mathematising of Mapuche People at the School Huencho Anahí (project)	Download
103	The Process of Dialogue in Teaching and Learning Mathematics with Deaf and Hearing Students Amanda Queiroz Moura, Miriam Godoy Penteado (project)	Download
104	Social Creativity in the Design of Digital Resources to Afford Creative Mathematical Thinking Chronis Kynigos, Maria Daskolia, Ioannis Papadopoulos (project)	Download
Developing Mathematical Concepts		
105	Statistics Education: An Alternative for Children in Literacy Cycle to Develop the Number Sense Maria Lúcia Wodewotzki, Sandra Gonçalves Vilas Bôas Campos	Download
106	The Concept of the Tangent in the Transition from Euclidean Geometry to Analysis – A Visualization via Touch Panagiotis Stavropoulos, Maria Toultsinaki	Download
107	Developing Concepts in a Study of Mathematics Learning Pathways Jasmine Ma, Molly Kelton (project)	Download

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Critical, Reflective, Affective

- 108 Developing Critical and Reflective Dimensions of Mathematical Modelling **Daniel Clark Orey, Milton Rosa** [Download](#)
- 109 How Confidence Relates to Mathematics Achievement: A New Framework **Lesa Covington Clarkson, Quintin Love, Forster Ntow** [Download](#)
- 110 Economic Crisis: The Educational Game Euro-Axio-Polis **Maria Chionidou-Moskofoglou, Aikaterini Vamvouli** (project) [Download](#)

Discussion Group

- 111 Trajectories of Mathematics Education Research in Greece **Sonia Kafousi, Anna Chronaki, Panagiotis Spyrou, Mariana Tzekaki, Babis Lemonidis, Despoina Potari, Babis Sakonidis** [Download](#)

Symposium

- 96 Dealing with our Own Shit: The Researcher Behind the [Mathematics Education] Research **Alexandre Pais, Alyse Schneider, Mônica Mesquita** [Download](#)

12th April, Wednesday

09:00 - 10:00 Final Discussion Session

10:00 - noon