

CURRICULUM VITAE

NAME: Jingjing Ma

PRESENT POSITION: Professor of Mathematics, Chair
Department of Mathematics and Statistics
College of Science and Engineering
University of Houston-Clear Lake
Phone: (281) 283-3727
Email: ma@uhcl.edu

EDUCATION: Ph.D. in Mathematics
University of Toledo, Ohio, USA, 1999
M.A. in Mathematics
University of Toledo, Ohio, USA, 1996

THESIS ADVISOR: Professor Stuart A. Steinberg

RESEARCH INTERESTS: Lattice-ordered Rings and Algebras

PROFESSIONAL EXPERIENCE:

Professor, University of Houston at Clear Lake, September, 2015 - present
Associate Professor, University of Houston at Clear Lake, September, 2007 - August, 2015
Assistant Professor, University of Houston at Clear Lake, September, 2001 - August, 2007
Visiting Assistant Professor, University of Texas at El Paso, September, 1999 - August, 2001

EDITORIAL, REVIEWING & REFEREEING ACTIVITIES:

1. Member of Editorial Board of the journal *Advances in Pure Mathematics*
<http://www.scirp.org/journal/apm/>
2. Reviewer for *Mathematical Review* of the American Mathematical Society
3. Reviewer for *Zentralblatt Math* of the European Mathematical Society

PUBLICATIONS

Book: *Lecture Notes on Algebraic Structure of Lattice-ordered Rings*, World Scientific Publishing, 2014.

Articles:

1. J. Ma, Characterizing division closed lattice-ordered rings, *Quaestiones Mathematicae*, published online first: 7/16/2021.

2. J. Ma, R. Redfield, Extending orders on rings with idempotent and d-elements, Order (accepted).
3. M. Findler, J. Ma, Extending partial orders on rings, Quaestiones Mathematicae, published online first: 5/1/2020.
4. J. Ma, B. Rygaard, Division closed l-rings and power positive L^* -rings, Quaestiones Mathematicae, published online first: 6/2/2020.
5. J. Ma, *Commutative consistently L^* -rings*, Algebra Universalis, published online first: 7/22/2019.
6. J. Ma, L. Wu, Y. Zhang, *Directed partial orders on the field of generalized complex numbers with $1 \text{ not } > 0$* , Positivity, **23** (2019), 1001-1007.
7. J. Ma, *Regular division closed lattice-ordered rings*, Quaestiones Mathematicae, **42** (2019), 1353-1355.
8. J. Ma, J. Smith, *Division closed lattice-ordered rings and commutative L^* -rings*, Quaestiones Mathematicae, **42** (2019), 1019-1029.
9. J. Ma, *Directed partial orders on unital algebras*, Quaestiones Mathematicae, **42** (2019), 447-450.
10. J. Ma, C. Yang, *Commutative L^* -rings II*, Quaestiones Mathematicae, **41** (2018), 719-727.
11. J. Ma, L. Wu, Y. Zhang, *Directed partial orders on $F(i)$ with $1 > 0$* , Order, **35** (2018), 461-466.
12. J. Ma, W.M. McGovern, *Division closed partially ordered rings*, Algebra Universalis, **78** (2017), 515-532.
13. J. Ma, Y. Zhang, *Commutative L^* -rings*, Journal of Mathematical Research and Its Application, **37** (3) (2017), 267-273.
14. J. Ma, *Division closed lattice-ordered rings*, Order **34** (2) (2017), 363-368.
15. J. Ma, L. Wu, Y. Zhang, *Directed partial orders on complex numbers and quaternions over non-archimedean linearly ordered fields*, Order **34** (1), (2017), 37-44.
16. J. Ma, *Directed partial orders on quaternions—a brief summary*, Quaternions, Theory and Applications, Nova Sciences Publisher, 2017, 1-10.
17. J. Ma, *Directed partial orders on complex numbers and quaternions II*, Positivity **20** (4), (2016), 823-828.
18. J. Ma, *Directed partial orders on real quaternions*, Quaestiones Mathematicae **39** (4) (2016), 437-439.
19. J. Ma, *Matrix l-algebras over l-fields*, Cogent Mathematics 2 (2015), published online: <http://dx.doi.org/10.1080/23311835.2015.1053660>.
20. J. Ma, *Partial orders on $C = D + Di$ and $H = D + Di + Dj + Dk$* , International Journal of Advanced Mathematical Sciences, **3** (2) (2015), 156-160.
21. J. Ma, Y. Zhang, *Positive derivations on Archimedean d-rings*, Algebra Universalis **72** (2014), 163-166.
22. J. Ma, Y. Zhang, *Lattice-ordered matrix algebras over totally ordered rings*, Order **31** (2014), 45-54.
23. J. Ma, Y. Zhang, *Lattice-ordered matrix algebras containing positive cycles*, Positivity, **17** (2013), 299-307.
24. J. Ma, *Recognition of lattice-ordered matrix rings*, Order, **30** (2013), 617-623.
25. J. Ma, *Regular unital finite-dimensional lattice-ordered algebras*, Communications in Algebra **40** (2012), 1680-1689.

26. M. Akkurt, Z. Alshair, L. Lamar, J. Ma, *Unital four-dimensional lattice-ordered algebras with a distributive basis*, ISRN Algebra (2011), doi: 10.5402/2011/650969.
27. J. Ma, *Finite-dimensional ℓ -simple lattice-ordered algebras with a d -basis*, Algebra Universalis **65** (2011), 341-351.
28. J. Ma, *Lattice orders on 2×2 triangular matrix algebras*, Algebra Universalis **62** (2009), 51-61.
29. J. Ma, E. March, *Lattice-ordered triangular matrix algebras*, Journal of Algebra, **321** (2009), 3659-3667.
30. J. Ma, R. H. Redfield, *Positive derivations on Archimedean lattice-ordered rings*, Positivity, **13** (2009), 165-191.
31. J. Ma, R. H. Redfield, *Lattice-ordered matrix rings over the integers*, Communications in Algebra, **35** (2007), 2160-2170.
32. J. Ma, R. H. Redfield, *Lattice-ordered fields determined by d -elements*, Applied Category Structures, **15** (2007), 19-33.
33. J. Ma, *Lattice-ordered algebras with a d -basis*, Journal of Algebra, **299** (2006), 731-746.
34. J. Ma, R. H. Redfield, D. Stelly, *Lattice orders on the sum of finite-dimensional matrix algebras*, Linear Algebra Research Advances, 1-16, Nova Sciences Publisher, 2007.
35. W. Bradley, J. Ma, *Lattice-ordered 2×2 triangular matrix algebras*, Linear Algebra and its Applications, **404** (2005), 262-274.
36. J. Ma, *Pure ℓ -ideals in lattice-ordered rings*, Communications in Algebra, **33** (2005), 3797-2810.
37. J. Ma, R. H. Redfield, *Fields of quotients of lattice-ordered domains*, Algebra Universalis, **52** (2004) no. 4, 383-401 (2005).
38. J. Ma, *Finite-dimensional lattice-ordered algebras with d -elements*, Journal of Algebra, **280** (2004), 232-243.
39. J. Ma, *Finite dimensional simple algebras that do not admit a lattice order*, Communications in Algebra, **32** (2004), 1615-1617.
40. J. Ma, S. A. Steinberg, *Construction of lattice orders on the semigroup rings of a positive monoid*, Journal of Algebra, **260** (2003), 592-616.
41. J. Ma, P. Wojciechowski, *Lattice orders on matrix algebras*, Algebra Universalis, **47** (2002), 435-441.
42. J. Ma, P. Wojciechowski, *A proof of Weinberg's conjecture on lattice-ordered matrix algebras*, Proceedings of the American Mathematical Society, **130** (2002), 2845-2851.
43. J. Ma, *Quotient rings of lattice-ordered Ore rings*, International Mathematical Journal, (2002), 483-490.
44. J. Ma, P. Wojciechowski, *Structure spaces of maximal ℓ -ideals of lattice-ordered rings*, Proceedings of Ordered Algebraic Structures Conference (Gainesville, 2001), J. Martinez (ed.), Kluwer Academic Publishers, (2002), 261-274.
45. J. Ma, *Lattice-ordered matrix algebras with the usual lattice order*, Journal of Algebra, **228** (2000), 406-416.
46. J. Ma, P. Wojciechowski, *F^* -rings are O^** , Order **17** (2000), 125-128.
47. J. Ma, *The quotient ring of a class of lattice-ordered Ore domains*, Algebra Universalis, **44** (2000), 299-304.
48. J. Ma, *On lattice-ordered rings with chain conditions*, Communications in Algebra, **25** (1997), 3483-3495.

49. J. Ma, *Lattice-ordered rings with f -elements which have zero annihilators*, Journal of Mathematical Research & Exposition **14** (1994), 455-460.
50. J. Ma, *The unitibility of ℓ -prime lattice-ordered rings with squares positive*, Proceedings of the American Mathematical Society, **121** (1994), 991-997.
51. J. Ma, *On lattice-ordered rings with polynomial constraints*, Journal of Mathematical Research & Exposition **11** (1991), 325-330.

Honor

President's Distinguished Research Award (2018).