

Journal for Mathematics and the Arts Call for Papers: Special Issue on the Mathematics of Fiber Arts

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JOURNAL FOR MATHEMATICS AND THE ARTS

Special Issue Call for Papers:

Mathematics of Fiber Arts

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THE JOURNAL FOR MATHEMATICS AND THE ARTS (<https://www.tandfonline.com/journals/tmaa20>) a peer-reviewed journal that focuses on connections between mathematics and the arts, is pleased to announce a call for papers for a special issue on *Mathematics of Fiber Arts*. Please send your queries via email to the guest editors. Initial submission of complete manuscripts is due August 1, 2022. The issue is currently scheduled to appear in Fall 2023.

THE JOURNAL FOR MATHEMATICS AND THE ARTS (<https://www.tandfonline.com/journals/tmaa20>) is a peer-reviewed journal that focuses on connections between mathematics and the arts. We are writing now to announce a call for papers for a special issue that we are guest-editing on *Mathematics of Fiber Arts*.

Continuing in the tradition begun with the volumes *Making Mathematics with Needlework* [1], *Crafting by Concepts* [2], and *Figuring Fibers* [3], we seek novel investigations and analyses of the mathematics within and inspired by fiber arts. This includes mathematical modeling of particular fiber artifacts or aspects of a fiber art, using mathematics to solve a problem presented in working on a fiber arts project, describing the process of accurately crafting a mathematical object, and the incorporation of mathematics in fiber arts project design. We also welcome pieces describing the design of a fiber arts project that displays a mathematical concept, introduction of new fiber arts techniques needed to explore advanced mathematics, and proofs that specific fiber arts can (or cannot) be used to instantiate a mathematical concept.

Submissions can range from full theoretical articles to short expositions and artist's statements.

Prospective authors should be aware of the priorities of the guest editors: We value clear exposition and helpful illustrations—both photos and diagrams. The interplay between mathematics and craft must be made explicit. We hope for each piece to include brief guides for the lay mathematician and lay crafter, but we also welcome papers aimed at expert crafters or at professional mathematicians. Preference will be given to work that innovates mathematically, in terms of the fiber art, or in connecting mathematics to a specific fiber art. Articles should describe, and preferably link to (but not include) an example pattern.

This special issue is an opportunity for authors to present major new results in the field to the JMA audience as well as for authors to contribute smaller advances or insights, or even ephemera. Prospective authors with questions about the suitability of their intended pieces should contact the guest editors.

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- [3] Carolyn Yackel, sarah-marie belcastro, editors, *Figuring Fibers*, American Mathematical Society, 2018.