To: United States Copyright Office July 5, 2015
Re: 2015 Orphan Works and Mass Digitization Report

I am a professional artist and author, and this work has been my primary source of income since 2007. I create artwork and jewelry by weaving together tiny beads with thread and a needle. I document my process with photos, illustrations and text, and I sell this documentation in the form of "beading tutorials" so that other people can recreate my designs for themselves. Selling my bead weaving tutorials is my primary source of income.

My copyrights are my primary source of income. I have published my work in several trade magazines, professional research journals, and I self publish my work for free on my blog and for sale on Etsy and my website. Once my work has been published it continues to have commercial value for me both as a form of advertising and for direct sale through my website and Etsy shop. It should therefore not be available for use by the public without my expressed written permission. In the digital era, my copyrighted inventory is more valuable to me as an artist than ever before. My tutorials have far more monetary value to me than the jewelry that I make and write about.

When people take my photos and writing without my permission, this is an act of theft. It is important to my livelihood that I remain able to determine voluntarily how and by whom my work is used. My work does NOT lose its value upon publication. When I publish in magazines and journals, I often continue to sell related written works directly to my customers. Everything I create becomes part of my business inventory.

Sincerely,
Gwen L. Fisher, Ph.D.

My website: http://beadinfinitum.com
My Etsy shop: https://www.etsy.com/shop/gwenbeads
My Blog: http://gwenbeads.blogspot.com

My Education
Associate Professor of Mathematics at California Polytechnic State University, San Luis Obispo. 2001-2007

Ph.D., University of Wisconsin at Madison (August 2001) Curriculum and Instruction, Mathematics Education (Minor: Mathematics)

M.A., University of California at Santa Barbara (December 1996) Mathematics

B.A., University of California at Santa Barbara (March 1992) Mathematics, High School Teaching Emphasis

Art Publications
* "Bat Country" in 50 Visions of Mathematics, Edited by Sam Parc, Oxford University

Press, 2014
* "Bat Country" in The Guardian, Alex's Adventures in Numberland, May 14, 2014 http://www.theguardian.com/science/alexs-adventures-in-numberland/gallery/2014/may/14/beauty-visions-mathematics-pictures
* "Pentagon and Square Links" 1000 Beads, Lark Jewelry & Beading, Kristina Logan, Ed., p.409, 2014.
* "Using Tiling Theory to Generate Beaded Angle Weaves" coauthored with Blake Mellor, Journal of Mathematics and the Arts, vol. 6, no. 4, 2012, pp. 141-158.
"Cube Cluster Beaded Beads" & "Icosahedral Cluster Beaded Art Object" in I CAN Right Angle Weave, by Mabiline Gidez, Lark Crafts, 2012.
"Infinity Donut," "Seven Sisters Beaded Pendant" & "Textile Cuff Bracelets VI" in Beaded Fantasies by Sabine Lippert, Lark Crafts, 2012.
* "Cluster Bead", Beadwork Magazine (Feb/Mar 12)
* "Lotus Necklace" Firemountain Gems Advertisement, Bead Style Magazine back cover, March 2010.
* "Harvest Jewels Necklace" Firemountain Gems Advertisement, Beadwork Magazine back cover, Oct/Nov 2009.
* "Deco Fan Earrings", Beadwork Magazine (Oct/Nov 09)
* "Archimedes Star Bracelet", Beadwork Magazine. (Aug/Sept 09)
* "Amethyst Elegance", Beadwork Magazine, (Dec 2008/Jan 2009)
* "Woven Beads", Mathematical Imagery, American Mathematical Society (April 2008)
* "Inspiration from an Octahedron," Mungbeing Magazine, Issue #16, (Fall 2007)
* "Three-dimensional finite point groups and the symmetry of Beaded Beads" including cover, coauthored with Blake Mellor, Journal of Mathematics and the Arts, 1(2), June 2007
* "Mathematics Goes High Fashion" Math Horizons (September 2007)
* "Dahlia Flowers in Mathematics, Nature, Art and Design" Math Horizons 13(3), February 2006
* "A Method for Illustrating Border and Wallpaper Patterns" Proceedings of the 8th Annual Bridges (Mathematical Connections in Art, Music and Science) Conference (July 2005)
* "The Quaternions Quilts" including cover, Focus: Newsletter of the MAA (January 2005)
* "Inspired by Snowflakes: Constructing, Folding, and Cutting Regular Paper Polygons to Create Art with Dihedral Symmetry" coauthored with Nicole Silkton, Proceedings of the 7th Annual Bridges (Mathematical Connections in Art, Music and Science) Conference (July 2004)
* "On the Topology of Celtic Knot Designs" coauthored with Blake Mellor, Proceedings of the 7th Annual Bridges (Mathematical Connections in Art, Music and Science) Conference (July 2004) Electronic Journal Quilt
* "Serendipity" including cover art, Quiltmaker Magazine (May/June 2004)
* "Quilt Designs Using Non-Edge-to-Edge Tilings by Squares" Proceedings of the Joint Meetings of ISAMA 2003 and the 6th Annual Bridges Conference (July 2003)

Articles about Me and My Work
* Gutina, Zoya. "Beaded Beads by Gwen Fisher" Gem and Beaded Jewelry, July 19, 2008
* Kingsley-Heath, Heather. "Maths and Beads (Bio of Gwen Fisher and Florence

Turnour)" United Kingdom Bead Society Journal, July 2008, pp. 10-11
* "Internet: Tresors Mathematiques" Cosinus, #91 (fevrier 2008) p.4 (In French)
* Peterson, Ivars. "Symmetries of Beaded Beads" The Mathematical Tourist, August 16, 2007
* Gray, Shirley. "Cayley Tables and Quilts" National Curve Bank, #48, Spring 2005.

Joint Publications with Florence Turnour
* "Double Daisy Chain" Beading Pattern-a-Day: 2008 Day-to-Day Calendar, Accord, a division of Andrews McMeel Publishing
* "Spinning Top Beaded Bead" Beading Pattern-a-Day: 2007 Day-to-Day Calendar, Accord, a division of Andrews McMeel Publishing November 2006
* "Crystal Suspense" Beadwork 9(6), Interweave Press October-November 2006
* "Color Coded Beads" Bead & Button, Kalmbach Publishing, April 2006
* "Barrel Bead" Step by Step Beads, Primedia Publishing, May-June 2006
* "Spinning Top Earrings" Step by Step Beads, Primedia Publishing, September-October 2005

Invited Talks, Workshops, and Exhibits
* BRIDGES Conference July 2015.
* MAA PNW Regional Conference, “How I use Mathematics to Weave Beads” and “Beaded Cubes and Beaded Tilings” April 2015.
* Museum of Mathematics, “Beaded Cubes” September 2014.
* Gathering for Gardner, "Math Anxiety Camp and My New Beads" April 2014.
* Northwest Bead Society, "How I Use Math to Weave Beads" September 2013.
* Gathering for Gardner, "Mathematical Bead Weaving" April 2012.
* Santa Clara Art Association, "How I use Symmetry in My Art" April 2012.
* University of Nebraska, Lincoln, Mathematics Department Annual Pi Mu Epsilon Talk, "How I use 2D and 3D Symmetry in My Art" April 2009.
* University of California, Santa Barbara, Mathematics Department Colloquium "3D Finite Point Groups and the Symmetry of Beaded Beads" April 2007.
* Banff International Research Station, “Innovations in Mathematics Education via the Arts” January 21-26, 2007.
* California Art Education Association Annual Meeting, Fresno CA, “Paper Snowflakes in Nature, Art and Mathematics” October 2006.
* Cal State University Long Beach, Mathematics Department Colloquium, “Visualizing Symmetry: The Art of Symmetry Groups” September 2006.
* Mathematical Sciences Research Institute, Berkeley, “The Quaternions Quilt,” “D Intersect H Quilt,” and the two-sided “Celtic Knot and Squared Square Quilt,” March 2006 to present.
* Mathematical Association of America Regional Conference, University of Southern California, “The Quaternions Quilt” and “D Intersect H Quilt,” Spring 2005.
* California Mathematics and Science Teacher Symposium, UCSB "Workshop: Dahlias Flowers in Art, Nature, and Mathematics" November 2004.
* 3rd Annual Cal Poly Arts Education Conference, Cal Poly, San Luis Obispo "Math & Art: Cross Disciplinary Connections" October 2003.

Exhibitions and Shows

* January 2014, "RAW Diamonds Quilt of a Group with 18 Elements" Juried Mathematical Fiber Arts Exhibit of the Joint Mathematics Meetings, Baltimore, MD
* January 2012, "Beaded Star Weaves: Five Bracelets" Juried Mathematical Arts Exhibit of the Joint Mathematics Meetings, Boston, MA
* January 5-8, 2009, "Curvy Three" and "Whitehead Link" Juried Mathematical Fiber Arts Exhibit of the Joint Mathematics Meetings, Washington, DC
* August 25-31, 2008, "Bat Country" Burning Man, Black Rock City, Nevada
* August 3-4, 2007, "Various symmetric beaded beads" Special Interest Group of the Mathematical Association of America-ARTS Exhibit of Mathematical Art, Mathfest of the MAA, San Jose, CA
* March 2007, Beaded jewelry show, Art after Dark, Naturally Jennifer's Gallery and Beads, San Luis Obispo, CA
* March 2006 to present, “The Quaternions Quilt,” “D Intersect H Quilt,” and the two-sided "Celtic Knot and Squared Square Quilt,” Mathematical Sciences Research Institute, Berkeley, CA
* January 2006, “Symmetric Beaded Beads” American Mathematics Society's Mathematical Art Exhibit, Annual Joint Mathematics Meetings, San Antonio, TX
* January 2005, "Symmetry I" American Mathematics Society's Mathematical Art Exhibit, Annual Joint Mathematics Meetings, Atlanta, GA