



Phil Webster

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Solo Exhibitions

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| 2015 | <i>Tradition Meets Tech</i> | First Fridays Artswalk, Pittsfield, MA |
| 2014 | <i>Fractal Islamic Art</i> | First Fridays Artswalk, Pittsfield, MA |
| 2013 | <i>Hi-Tech Art: Visions of Mathematical Beauty</i> | First Fridays Artswalk, Pittsfield, MA |

Group Exhibitions

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| 2022 | <i>Juried Members Show</i> | Sonoran Arts League Center for the Arts, Cave Creek, AZ |
| | <i>Hot Art Cool Show</i> | Desert Foothills Library, Cave Creek, AZ |
| | <i>Casting Shadows</i> | Sonoran Arts League Center for the Arts, Cave Creek, AZ |
| | <i>Ocotillo Fine Art and Craft Show</i> | Downtown Ocotillo, Chandler, AZ |
| | <i>Trending</i> | Desert Foothills Library, Cave Creek, AZ |
| | <i>Non-Objective Abstract Show</i> | Desert Foothills Library, Cave Creek, AZ |
| | <i>JMM 2022 Mathematical Art Exhibition</i> | Joint Mathematics Meetings, virtual |
| 2021 | <i>Bridges 2021 Art Exhibition</i> | Aalto University, Helsinki, Finland |
| | <i>Off the Wall</i> | Sonoran Arts League Center for the Arts, Cave Creek, AZ |
| | <i>Math Art Exhibition</i> | MAA Section Meeting, virtual |
| | <i>New Members Show</i> | Sonoran Arts League Center for the Arts, Cave Creek, AZ |
| | <i>JMM 2021 Mathematical Art Exhibition</i> | Joint Mathematics Meetings, virtual |
| 2020 | <i>Bridges 2020 Art Exhibition</i> | Aalto University, Helsinki, Finland |
| | <i>Math Art Exhibition</i> | MAA Section Meeting, Mills College Oakland, CA |
| | <i>JMM 2020 Mathematical Art Exhibition</i> | Joint Mathematics Meetings, Denver, CO |
| 2019 | <i>Bridges 2019 Art Exhibition</i> | Johannes Kepler University, Linz, Austria |
| 2018 | <i>Bridges 2018 Art Exhibition</i> | Tekniska museet, Stockholm, Sweden |
| | <i>Math Art Exhibition</i> | MAA Section Meeting, CSU East Bay, Hayward, CA |
| | <i>JMM 2018 Mathematical Art Exhibition</i> | Joint Mathematics Meetings, San Diego, CA |
| 2017 | <i>Vision+Light: Converging Senses</i> | Li Ka Shing Center, Berkeley, CA |
| | <i>Knowledge & Diversity: Celebrating the 10th Anniversary of the Center for Islamic Studies</i> | Graduate Theological Union, Berkeley, CA |
| | <i>Reverberating Echoes: Contemporary Art Inspired by Traditional Islamic Art</i> | Graduate Theological Union, Berkeley, CA |
| | <i>Math Art Exhibition</i> | MAA Section Meeting, Santa Clara University, Santa Clara, CA |
| | <i>Bridges 2017 Art Exhibition</i> | University of Waterloo, Waterloo, Canada |
| 2016 | <i>Mathematics and Art: Searching for Pattern</i> | Suffolk University Gallery, Boston, MA |
| | <i>Math Art Exhibition</i> | MAA Section Meeting, UC Davis, Davis, CA |
| | <i>Bridges 2016 Art Exhibition</i> | University of Jyväskylä, Jyväskylä, Finland |
| 2015 | <i>The Art of Math</i> | Gallery North, Stony Brook, NY |
| | <i>MathFest Art Exhibitio</i> | MAA MathFest, Washington, DC |
| | <i>Bridges 2015 Art Exhibition</i> | University of Baltimore, Baltimore, MD |

	ma(r)th	Towson University, Towson, MD
2014-2016	MoSAIC Traveling Art Exhibition	Berkeley, CA; New York, NY; Urbana, IL; Portland, OR; Raleigh, NC; Washington, DC; Albion, MI; Cambridge, MA; Boulder, CO
2014	Art Takes Miami	Miami, FL
	Convergence: Where Art and Science Collide	Cary Memorial Library, Lexington, MA
	Bridges 2014 Art Exhibition	Gwacheon National Science Museum, Seoul, South Korea
	JMM 2014 Mathematical Art Exhibition	Joint Mathematics Meetings, Baltimore, MD
2013	Islam Contemporary	Lichtenstein Center for the Arts, Pittsfield, MA
	International Society of the Arts, Mathematics, and Architecture (ISAMA) and Shape Modeling International (SMI) Joint Conference Art Exhibition	Bournemouth, Great Britain
	Bridges 2013 Art Exhibition	Saxion University, Enschede, The Netherlands
	Local Color I: Photography and Digital Arts	Gallery North, Stony Brook, NY
	FAX + Pattern	Simons Center Gallery, Stony Brook, NY
	Stony Brook Science and Arts Expo	Stony Brook University, Stony Brook, NY

Awards / Honors / Residencies

2022	Juried Member, Sonoran Arts League
2021	Honorable Mention, JMM 2021 Mathematical Art Exhibition
2014	Best in Show, Convergence: Where Art and Science Collide
2013	Artist in Residence, Simons Center for Geometry and Physics, Stony Brook University, Stony Brook, NY

Publications

2022	Decorating Polar Zonohedra with Islamic Geometric Patterns Bridges 2022 Conference Proceedings
2020	From Computer to Compass: Analysis and Reconstruction of a Self-Similar Islamic Geometric Pattern at Madrassa Madar-i-Shah Bridges 2020 Conference Proceedings Islamic 8-fold Fractal Flower Median (I and II) Journal of Mathematics and the Arts, Vol. 14, Issue 1-2
2018	Lizardy Loops: The Savvy Selection of Sinuous Sequences of Circular Sectors Bridges 2018 Conference Proceeding Infinity Flower IV Journal of Mathematics and the Arts, Vol. 12, Issue 2-3
2013	Fractal Islamic Geometric Patterns Based on Arrangements of $\{n/2\}$ Stars Bridges 2013 Conference Proceedings

Lectures / Presentations / Panels / Workshops

2022	Laser Cutting as an Artistic Tool (guest lecture) Trending Exhibition	Desert Foothills Library, Cave Creek, AZ
2018	A Methodology for Creating Fractal Islamic Patterns (guest lecture) Algorithmic Aesthetics: Into Infinity lecture series	Slow Fiber Studios, Berkeley, CA
	A Methodology for Creating Fractal Islamic Patterns (paper presentation)	San Diego, CA
	Joint Mathematics Meetings	

- 2016 *Fractal Islamic Geometric Patterns Based on Arrangements of $\{n/2\}$ Stars* (guest lecture)
 mathematics colloquium Santa Clara University, Santa Clara, CA
Fractal Islamic Geometric Patterns (guest lecture)
 Power of Pattern design class University of San Francisco, San Francisco, CA
Tools and Process for Creating Vector Files for Laser Cut Art (guest lecture)
 Santa Cruz Arts & Technology Meetup Santa Cruz, CA
- 2015 *Fractal Islamic Geometric Patterns Based on Arrangements of $\{n/2\}$ Stars* (guest lecture)
 Mathematics colloquium University of San Francisco, San Francisco, CA
- 2014 *Self-Similarity in Islamic Geometric Design* (guest lecture)
 MoSAIC Art Festival Columbia University Secondary School, New York, NY
Convergence: Where Art and Science Collide (panel discussion)
 Art exhibition reception Cary Memorial Library, Lexington, MA
Digital Fabrication and 3D Art (guest lecture)
 Lecture series Berkshire Athanaeum, Pittsfield, MA
- 2013 *ArTalk@Gallery North* (panel discussion)
 Art exhibition event Gallery North, Setauket, NY
3D Printing and Mapping (demonstration event)
 Artist in residence event Simons Center Gallery, Stony Brook, NY
3D Printing of Islamic Art (demonstration event)
 Artist in residence event Simons Center Gallery, Stony Brook, NY
Introduction to 3D Modeling and Printing (workshop series)
 Artist in residence event Simons Center Gallery, Stony Brook, NY

Press

- 2022 *"Meet Phil Webster"*
 CanvasRebel.com, June 2022
- 2016 *"Reverberating Echoes: Contemporary Art Inspired by Traditional Islamic Art"*
 el-Sayed el-Aswad, Horizons in Humanities and Social Sciences, 2 (1) 81-83, 2016
- 2014 *"The Convergence of Art & Science: Cary Library Art Exhibit"*
 The Colonial Times, September/October 2014
- 2013 *"Simons Center hosts traveling Islamic art show"*
 The Statesman, Vol. LVI, Issue 25, p. 12, April 15, 2013

Special Projects / Licensing

- 2015 *Excerpts - Elemental Stars* (CD cover) Albany Publishing, Albany, NY
- 2014 *Diatoms I* (book cover) Tanweer Publishing, Egypt
- 2014 *MoMath Masters* (design of 3D printed sculptures for table centerpieces) Museum of Mathematics, New York, NY
- 2012 *Grand Gala Opening* (design of laser cut enclosure for invitation) Museum of Mathematics, New York, NY

Education

- 1992-1994 *Berklee College of Music*—Jazz Composition & Voice Boston, MA
- 1989-1991 *University of Michigan*—Cognitive Science Ann Arbor, MI
- 1985-1989 *Massachusetts Institute of Technology*—BS in Brain and Cognitive Sciences, minor in Music Cambridge, MA

Artistic and Technical Skills

- Media:** Pen and ink, watercolor, paper (origami, kirigami, pop-up), fused glass, stained glass, wood, 3D printing (nylon, plaster), laser cutting (wood), digital printing (aluminum, acrylic, and giclée)
- Technologies:** 2D and 3D modeling, laser cutting, 3D printing/prototyping
- Software:** Advanced: SketchUp, Rhino3D, Graphic Converter, Sketch
Intermediate: Mathematica, Inkscape, LaTeX, Pixelmator
Basic: Blender
- Programming:** HTML, CSS, JavaScript, Python, PHP, Ruby