BIOGRAPHY

Erik Demaine and Martin Demaine are a father-son math-art team. Martin started the first private hot glass studio in Canada and has been called the father of Canadian glass. Since 2005, Martin Demaine has been an Artist-in-Residence at the Massachusetts Institute of Technology. Erik is also at the Massachusetts Institute of Technology, as a Professor in computer science. He received a MacArthur Fellowship in 2003. In these capacities, Erik and Martin work together in paper, glass, and other material. They use their exploration in sculpture to help visualize and understand unsolved problems in science, and their scientific abilities to inspire new art forms. Their artistic work includes curved origami sculptures in the permanent collections of the Museum of Modern Art (MoMA) in New York, and the Renwick Gallery in the Smithsonian. Their scientific work includes over 60 published joint papers, including several about combining mathematics and art. They recently won a Guggenheim Fellowship (2013) for exploring folding of other materials, such as hot glass.

SOLO/JOINT EXHIBITIONS

2014 Duncan McClellan Gallery, Florida (joint with Peter Houk)
2013 Edwards Art Gallery, New Hampshire (joint with Shandra McLane)
2013 Dwight School, New York City (solo show)
2013 The Art Museum, Kentucky (solo show)
2012 Simons Center Art Gallery, New York (joint with Theo Jansen)
2012 Guided By Invoices, New York City (solo show)
2007 Andrew and Laura McCain Gallery, Canada (solo show)

SELECTED EXHIBITIONS

2016–2017 Origami House Colonia, Uruguay (invitational)
2016–2015 Guild of Book Workers: Vessel (traveling exhibit) (catalog) (juried)
North Bennet Street School, Massachusetts
Anderson Academic Commons, Colorado
Kellogg Gallery, California
Cary Graphic Arts Collection, New York
Loganberry Books, Ohio
2016 Phoenix Brighton Gallery, England (invitational)
2016 Sharjah Art Foundation, United Arab Emirates (invitational)
2016 Morgan Contemporary Glass Gallery, Pennsylvania (invitational)
2016 Kent State University Museum, Ohio (juried)
2015 Concord Art Association, (catalog) (invitational)
2015 Mobilia Gallery, Massachusetts (invitational)
2015 Nature in Art Museum, England (invitational)
2015 Cape Cod Museum of Art (juried)
2015 Arts Center East, Connecticut (invitational)
2015 Gallery North, New York (juried)
2015–2016 University of South Dakota, South Dakota (invitational)
2015 All Things Considered VIII (traveling exhibit) (catalog) (juried)
Fruitlands Museum, Massachusetts
The Grand Hand Gallery, Minnesota
2015 Museum of Northwest Art, Washington (invitational)
2015 Sandwich Glass Museum, Massachusetts (catalog) (invitational)
2015 Textile Center, Minnesota (juried)
2015 Charles River Museum of Industry & Innovation, Massachusetts (invitational)
2015 Sofia National Museum of History, Bulgaria (catalog) (juried)
2015 Yeiser Art Center, Kentucky (juried)
2015 Minnesota Center for Book Arts, Minnesota (juried)
2015 Jaffa Museum, Israel (invitational)
2015 The Wichita Center for the Arts, Kansas (juried)
2015–2016 Museum of Modern Art (MoMA), New York City (invitational)
2015–2017 Above the Fold (traveling exhibit) (invitational)
   Allentown Art Museum, Pennsylvania
   Clay Center for the Arts & Sciences, West Virginia
   Morikami Museum and Japanese Gardens, Florida
   Longmont Museum & Cultural Center, Colorado
   Japanese American National Museum, California
   Hermitage Museum and Gardens, Virginia
   Springfield Museums, Massachusetts
2014–2015 Educational Museum of Origami in Zaragoza, Spain (invitational)
2014–2015 Fuller Craft Museum, Massachusetts (catalog) (invitational)
2014–2015 Mobilia Gallery, Massachusetts (invitational)
2014–2015 Ethel Sergeant Clark Smith Gallery, Pennsylvania (invitational)
2014 National Liberty Museum, Pennsylvania (catalog) (invitational)
2014–2015 Zuckerman Museum of Art, Georgia (catalog) (invitational)
2014 Pyramid Atlantic Art Center, Maryland (juried)
2014 Mobilia Gallery, Massachusetts (invitational)
2014 Mary Cornwell Gallery, North Carolina (catalog) (juried)
2014– Museum of Science and Industry, Illinois (invitational)
2014 Morris Museum, New Jersey (invitational)
2014–2015 The Canadian Clay and Glass Gallery, Canada (invitational)
2014–2015 Livres des Artistes D’aujourd’hui: Collaboration (traveling exhibit) (invitational)
   Wolfson Gallery of Art + Design, Florida
   The Center for Book Arts, New York City (invitational)
2014 Affinity Gallery, Canada (invitational)
2014 Alden B. Dow Museum of Science and Art, Michigan (invitational)
2014 Fuller Craft Museum, Massachusetts (juried)
2014 41 Cooper Gallery, New York City (juried)
2014 Museum Rijswijk, Netherlands (catalog) (juried)
2014 Mesa Contemporary Arts Museum, Arizona (invitational)
2014 Morgan Contemporary Glass Gallery, Pennsylvania (invitational)
2014 Bridgewater State University, Massachusetts (invitational)
2014 MIT Kavli Institute, Massachusetts (juried)
2013–2014 Wayne Art Center, Pennsylvania (catalog) (juried)
2013 Bank Street Arts, England (catalog) (juried)
2013 Sandusky Cultural Center, Ohio (invitational)
2013 Williams Center for the Arts, Pennsylvania (invitational)
2013 Charles B. Wang Center, New York (invitational)
2013 The Art Institute of Atlanta—Decatur, Georgia (juried)
Endeavor Art Gallery, Canada
Harriet Irving Library, Canada
Affinity Gallery, Canada
Ontario Crafts Council Gallery, Canada
Rare Books and Special Collections, Canada
McPherson Library Gallery, Canada
2013  Kinokuniya Book Store, New York City (catalog)  (invitational)
2013  Berkshire Museum, Massachusetts (catalog)  (invitational)
2013  Guided By Invoices, New York City  (invitational)
2013  Fuller Craft Museum, Massachusetts  (juried)
2013  Firelands Association for the Visual Arts Gallery, Ohio  (invitational)
2013  Mobilia Gallery, Massachusetts  (invitational)
2013  Vernon Community Arts Center, Connecticut  (invitational)
2013–2014  FAX + Pattern Exhibition (traveling exhibit)  (invitational)
KARST, England
Simons Center for Geometry and Physics Art Gallery, New York
2013–2014  Museum of Modern Art (MoMA), New York City  (invitational)
2012  China Science & Technology Museum, China (catalog)  (juried)
2012  Jong Ie Nara Paper Museum, Korea  (juried)
2012–2013  Jaffe Center for Book Arts, Florida  (invitational)
2012–2013  Renwick Gallery, DC (catalog)  (invitational)
2012  College of Fine Arts Gallery, Maryland (catalog)  (juried)
2012  Dorsky Gallery, New York  (invitational)
2012  Eloise Pickard Smith Gallery, Santa Cruz  (invitational)
2012  Central Library, Georgia  (invitational)
2012–2016  Folding Paper: The Infinite Possibilities of Origami (traveling exhibit) (catalog)  (invitational)
Louisiana Art & Science Museum, Louisiana
Bellevue Arts Museum, Washington
Boise Art Museum, Idaho
Center for the Arts of Bonita Springs, Florida
Japanese American National Museum, California
Peoria Riverfront Museum, Illinois
Oregon Historical Society, Oregon
Brigham Young University Museum of Art, Utah
Crocker Art Museum, California
Leigh Yawkey Woodson Art Museum, Wisconsin
Thorne-Sagendorph Art Gallery, New Hampshire
2012  Fuller Craft Museum, Massachusetts  (juried)
2012  Moreau Center for the Arts, Indiana  (invitational)
2011  Sarah Silberman Art Gallery, Maryland  (invitational)
2011  Bridges 2011: Mathematics, Music, Art, Architecture, Culture, Portugal  (juried)
2011  Central Booking, New York  (invitational)
2009–2010  Peel Gallery, Texas  (invitational)
2009  Art Cézar, Belgium  (invitational)
2008–2009  Museum of Modern Art (MoMA), New York City  (invitational)
2008  Museum of Modern Art (MoMA), New York City (catalog)  (invitational)
2006  MIT Museum, Massachusetts  (invitational)
2005  Massachusetts Institute of Technology, Massachusetts  (exhibit)
2004  Building with Books: A Bibliophile’s Bedroom (traveling exhibit)  (exhibit)
Boston Public Library, Massachusetts
Massachusetts Institute of Technology, Massachusetts
PUBLIC COLLECTIONS

work by Demaine & Demaine

2016 Mahoney Music Collection, University of South Dakota
2015 Origami House Colonia, Uruguay
2015 Walker Art Center, Minnesota
2015 Israeli Origami Center Collection
2015 Sandwich Glass Museum, Massachusetts
2015 John Simon Guggenheim Memorial Foundation
2015 Corning Inc., New York
2015 Charles River Museum of Industry & Innovation, Massachusetts
2015 Zuckerman Museum of Art, Georgia
2015 Amateras Foundation, Bulgaria
2014 Educational Museum of Origami in Zaragoza, Spain
2014 Mesa Contemporary Arts Museum, Arizona
2014 Center for Book Arts, New York
2014 Museum of Science and Industry, Chicago
2014 Kamm Teapot Foundation
2014 McGill Bellairs Research Institute, Barbados
2014 Centre College, Danville
2014 MIT Kavli Institute, Massachusetts
2013 Firelands Association for the Visual Arts, Ohio
2013 Berkshire Museum, Massachusetts
2013 The Art Museum, Kentucky
2013 Williams Center for the Arts, Pennsylvania
2013 Canadian Bookbinders and Book Artists Guild, Ontario
2013 Decatur Arts Alliance, Georgia
2013 Bank Street Arts, England
2013 Jaffe Center for Book Arts, Florida
2013 Independent Curators International
2012 Jong Ie Nara Paper Museum, Korea
2012 Pilchuck Glass School, Washington
2012 Fuller Craft Museum, Massachusetts
2011 Smithsonian American Art Museum, DC
2010 MD Anderson Cancer Center, Texas (installation)
2008 Museum of Modern Art (MoMA), New York City

additional work by Martin Demaine

South Australian Museum, Australia
National Gallery of Canada, Canada
circa Montreal Museum of Fine Arts, Canada
1975 Canadian Museum of Civilization, Canada
Canadian Clay & Glass Museum, Canada
Nova Scotia Museum, Canada
New Brunswick Museum, Canada

ART RESIDENCIES

2014 Museum of Glass, Tacoma, Washington
2014 Centre College, Danville, Kentucky
2014 Penland School of Crafts, Bakersville, North Carolina
2012 Pilchuck Glass School, Stanwood, Washington

TALKS

2015 Hermitage Museum and Gardens, Virginia
2015 Museum of Science and Industry, Illinois
2015 Tufts University, Massachusetts
2015 Boston University, Massachusetts
2015 Detroit Institute of Arts, Michigan
2014 Museum of Glass, Washington
2014 10th Annual Center Institute, Massachusetts
2014 Icelandic Centre of Excellence in Theoretical Computer Science, Iceland
2014 20th Origami Tanteidan Convention, Japan
2014 7th International Conference on Fun with Algorithms, Italy
2014 OrigamiUSA Annual Convention, New York
2014 Vienna University of Technology, Austria
2014 Centre College, Kentucky
2014 Community Arts Center, Kentucky
2014 Dallas Contemporary, Texas
2014 Make/Speak, Massachusetts
2014 North Carolina State University
2014 Museum of Fine Arts, Florida
2013 University of the Arts, Pennsylvania
2013 Edwards Art Gallery, New Hampshire
2013 Lafayette College, Pennsylvania
2013 University of Electro-Communications, Japan
2013 Komaba Museum, Japan
2013 Haystack Mountain School of Crafts, Maine
2013 GlassBoston, Massachusetts
2013 Canadian Mathematical Society Summer Meeting, Canada
2013 University of Kentucky, Kentucky
2013 Kansas State University, Kansas
2013 Museum of Mathematics, New York
2013 Renwick Gallery, DC
2012 National Tsing Hua University, Taiwan
2012 Academia Sinica, Taiwan
2012 Two Sigma Investments, New York
2012 3rd Annual Gathering for Gardner Celebration of Mind, Massachusetts
2012 Dorsky Gallery, New York
2012 Cairo Science Festival, Egypt
2012 Cambridge Science Festival, Massachusetts
2012 Kentucky Section Meeting of the Mathematical Association of America, Kentucky
2012 Southeastern Section Meeting of the Mathematical Association of America, Georgia
2012 Louisiana/Mississippi Section Meeting of the Mathematical Association of America, Louisiana
2012 Fuller Craft Museum, Massachusetts
2012 Carnegie Institution for Science, DC
2011 University of Maryland, Maryland
2011 Fields Institute, Canada
2011 Michigan Section Meeting of the Mathematical Association of America, Michigan
2011 79th Annual Wisconsin Section Meeting of the Mathematical Association of America, Wisconsin
2011 Missouri Section Spring Meeting of the Mathematical Association of America, Missouri (plenary)
2011 Central Booking, New York (panel)
2011 Museum of Mathematics, New York (plenary)
2011 Northern California, Nevada and Hawaii Section Meeting of the Mathematical Association of America, California (plenary)
2011 University of British Columbia, Canada (plenary)
2010 55th Annual Fall Sectional Meeting, Northeastern Section, Mathematical Association of America, Rhode Island (plenary)
2010 Renaissance Technologies, New York (invited)
2010 University of Calgary, Canada (plenary)
2010 Huamin Primary School, Singapore (invited)
2010 5th International Conference on Origami in Science, Mathematics and Education, Singapore (plenary)
2010 Department of Mathematics, Singapore (invited)
2010 17th Annual Hudson River Undergraduate Mathematics Conference, New Hampshire (plenary)
2010 26th British Colloquium for Theoretical Computer Science, Scotland (plenary)
2010 The Entertainment Gathering, California (plenary)
2010 Joint Mathematics Meetings of the American Mathematical Society and Mathematical Association of America, California (plenary)
2010 Joint Mathematics Meetings of the American Mathematical Society and Mathematical Association of America, California (invited)
2010 Northwestern University, Illinois (invited)
2009 7th Japan Conference on Computational Geometry and Graphs, Japan (plenary)
2009 17th Annual European Symposium on Algorithms, Denmark (plenary)
2009 British Science Festival, England (invited)
2009 British Origami Society Autumn Convention, England (invited)
2009 11th Algorithms and Data Structures Symposium, Canada (plenary)
2009 12th Annual Conference of BRIDGES: Mathematical Connections in Art, Music, and Science, Canada (plenary)
2009 The Graduate Center, New York (plenary)
2008 Université Libre de Bruxelles, Belgium (plenary)
2008 MathFest 2008, Wisconsin (plenary)
2008 MIND'08: The Design and the Elastic Mind Symposium, New York (plenary)
2007 University of Georgia, Georgia (plenary)
2005 Annual Meeting of the American Association for Advancement of Science, DC (plenary)
2004 3rd International Conference on Fun with Algorithms, Italy (plenary)

MEDIA COVERAGE

Magazines and newspapers: (a selection from over 200 articles)

“Art + Science” by Joyce Lovelace, American Craft, July 2014.
“Number Crunchers” by Monica Moses, American Craft, July 2013.
“Cover, American Style, July 2012.
“Young Visionaries” by Tina Coplan, Home & Design, July 2012.
“The blend of art and mathematics” by Josey Bartlett, Queens Chronicle, May 2012.


“Rubik’s cubes of any size can now be solved” by Jacob Aron, June 2011.


Books (excluding exhibition catalogs listed above):


2010 Joint Mathematics Meetings Exhibition of Mathematical Art, edited by Robert Fathauer and Anne Burns, mathartfun, 2010. Catalog featuring our Natural Cycles sculpture (including on the cover).


Video:

Featured on GATCHAN!, NHK Japan, Nov. 2010.
Featured on Belgian talk show De Laatste Show, Mar. 2009.
Featured in 56-minute documentary Between the Folds about origami, 2008.
Featured on Chronicle, WCVB TV Boston, May 2005.

Radio:

Radio 1 Belgium, Feb. 2009.
Quirks and Quarks, CBC Radio, Nov. 2003.

AWARDS

Martin L. Demaine
Guggenheim Fellow, John Simon Guggenheim Memorial Foundation, 2013

Erik D. Demaine
Guggenheim Fellow, John Simon Guggenheim Memorial Foundation, 2013
Presburger Award, European Association for Theoretical Computer Science, 2013
George Pólya Lecturer, Mathematical Association of America, 2010–2012
Université Libre de Bruxelles Gold Medal, 2008
Earle Raymond Hedrick Lecturer, Mathematical Association of America, 2008
Katayanagi Emerging Leadership Prize, Carnegie Mellon University and Tokyo University of Technology, 2008
International Francqui Chair of Belgium and Francqui Gold Medal, 2007
Honorary Doctor of Laws degree, Dalhousie University, 2007
Alfred P. Sloan Research Fellowship, 2006–2008
Esther and Harold E. Edgerton Professor at MIT, 2005–2008
Harold E. Edgerton Faculty Achievement Award, Apr. 2005
DOE Early Career Principal Investigator Award, Sept. 2004
NSF CAREER Award, June 2004
Ruth and Joel Spira Award for Distinguished Teaching in EECS at MIT, May 2004
MacArthur Fellowship, Nov. 2003
NSERC Doctoral Prize and Silver Medal, Mar. 2003 (best PhD thesis & research in Canada, 1 of 4 awards)
Boston Magazine “40 Bostonians to Watch”, June 2002
Governor General’s Academic Gold Medal (best PhD at U. Waterloo), June 2002