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

2018–2019  Atlanta Airport, Georgia (invitational)
2018  Schack Art Center, Washington (invitational)
2018  University of San Diego, California (invitational)
2018–2019  Science Museum Oklahoma, Oklahoma (invitational)
2018  Center on Contemporary Art, Washington (invitational)
2018  University of Tokyo, Japan (invitational)
2017  Mobilia Gallery, Massachusetts (invitational)
2017  Japan Information & Culture Center, DC (invitational)
2017  British Origami Society, England (invitational)
2017  University of Tokyo, Japan (invitational)
2017  University of Waterloo, Canada (catalog) (invitational)
2017  Villa Bagatelle, Canada (invitational)
               Museum of Science, Massachusetts
               Franklin Institute, Pennsylvania
               Arizona Science Center, Arizona
2017  Chrysler Museum of Art, Virginia (invitational)
2017  Central Booking, New York (invitational)
2017 Maloney Art Gallery, New Jersey (invitational)
2017 Museum of the White Mountains, New Hampshire (invitational)
2016–2020 Fuller Craft Museum, Massachusetts (invitational)
2016–2017 Chimei Museum, Taiwan (invitational)
2016 Paper Circle, Ohio (juried)
2016–2017 Art Museum of Tsinghua University, China (invitational)
2016 ETH Zürich, Switzerland (invitational)
2016–2017 Origami House Colonia, Uruguay (invitational)
2016 Florida Craft Art Gallery, Florida (invitational)
2016–2015 *Guild of Book Workers: Vessel (traveling exhibit) (catalog)* (invitational)
  North Bennet Street School, Massachusetts
  Anderson Academic Commons, Colorado
  Kellogg Gallery, California
  Cary Graphic Arts Collection, New York
  Loganberry Books, Ohio
2016– Renwick Gallery, DC (catalog) (invitational)
2016 Educational Museum of Origami in Zaragoza, Spain (invitational)
2016 Chautauqua Institution gallery, New York (invitational)
2016 Mobilia Gallery, Massachusetts (invitational)
2016 Firelands Association for the Visual Arts Gallery, Ohio (invitational)
2016 Phoenix Brighton Gallery, England (catalog) (invitational)
2016 Sharjah Art Foundation, United Arab Emirates (catalog) (invitational)
2016 Morgan Contemporary Glass Gallery, Pennsylvania (invitational)
2016– Renwick Gallery, DC (catalog) (invitational)
2016 Kent State University Museum, Ohio (catalog) (juried)
2015 Concord Art Association, Massachusetts (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 (juried)
2015 Gallery North, New York (invitational)
2015–2016 University of South Dakota, South Dakota (juried)
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 Educational Museum of Origami in Zaragoza, Spain (invitational)
2015–2016 Museum of Modern Art (MoMA), New York City (invitational)
2015–2020  *Above the Fold (traveling exhibit)* (invitational)
   Allentown Art Museum, Pennsylvania
   Clay Center for the Arts & Sciences, West Virginia
   Dayton Art Institute, Ohio
   Morikami Museum and Japanese Gardens, Florida
   Art Gallery of Hamilton, Ontario
   Maui Arts & Cultural Center, Hawaii
   Longmont Museum & Cultural Center, Colorado
   Japanese American National Museum, California
   Hermitage Museum and Gardens, Virginia
   Visual Arts Center at Washington Pavilion, South Dakota
   Northwest Museum of Arts + Culture, Washington
   Springfield Museums, Massachusetts
   Museum of Fine Arts, Florida

   Leigh Yawkey Woodson Art Museum, Wisconsin

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  *Wayne Art Center, 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  *Haywood Community College Creative Arts, North Carolina* (catalog) (juried)
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
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* (juried)
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)
2013–2015  *Art of the Book 2013 (traveling exhibit)* (catalog) (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)
<table>
<thead>
<tr>
<th>Year</th>
<th>Exhibition/Event</th>
<th>Location</th>
<th>Type</th>
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<tbody>
<tr>
<td>2013</td>
<td>Berkshire Museum, Massachusetts (catalog)</td>
<td>(invitational)</td>
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<td>2013</td>
<td>Guided By Invoices, New York City</td>
<td>(invitational)</td>
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<td>2013</td>
<td>Fuller Craft Museum, Massachusetts</td>
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<td>(juried)</td>
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<td>2013</td>
<td>Firelands Association for the Visual Arts Gallery, Ohio</td>
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<td>2013</td>
<td>Mobilia Gallery, Massachusetts</td>
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<td>2013</td>
<td>Vernon Community Arts Center, Connecticut</td>
<td>(invitational)</td>
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<td>2013–2014</td>
<td><em>FAX + Pattern Exhibition</em> (traveling exhibit)</td>
<td>KARST, England</td>
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<td>Simons Center for Geometry and</td>
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<td>Physics Art Gallery, New York</td>
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<td>2013–2014</td>
<td>Museum of Modern Art (MoMA), New York City</td>
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<td>2012</td>
<td>China Science &amp; Technology Museum, China (catalog)</td>
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<td>2012</td>
<td>Jong Ie Nara Paper Museum, Korea</td>
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<td>2012–2013</td>
<td>Jaffe Center for Book Arts, Florida</td>
<td>(invitational)</td>
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<td>2012–2013</td>
<td>Renwick Gallery, DC (catalog)</td>
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<td>2012</td>
<td>College of Fine Arts Gallery, Maryland (catalog)</td>
<td>(juried)</td>
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<td>2012</td>
<td>Dorsky Gallery, New York</td>
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<td>2012</td>
<td>Eloise Pickard Smith Gallery, Santa Cruz</td>
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<td>2012</td>
<td>Central Library, Georgia</td>
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<td>Bellevue Arts Museum, Washington</td>
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<td>Boise Art Museum, Idaho</td>
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<td>Center for the Arts of Bonita Springs, Florida</td>
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<td>Japanese American National Museum, California</td>
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<td>Peoria Riverfront Museum, Illinois</td>
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<td>Oregon Historical Society, Oregon</td>
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<td>Brigham Young University Museum of Art, Utah</td>
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<td>Crocker Art Museum, California</td>
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<td>Leigh Yawkey Woodson Art Museum, Wisconsin</td>
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<td>Thorne-Sagendorph Art Gallery, New Hampshire</td>
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<td>2012</td>
<td>Fuller Craft Museum, Massachusetts</td>
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<td>2012</td>
<td>Moreau Center for the Arts, Indiana</td>
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<td>2011</td>
<td>Sarah Silberman Art Gallery, Maryland</td>
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<td>2011</td>
<td><em>Bridges 2011: Mathematics, Music, Art, Architecture, Culture, Portugal</em></td>
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<td>2011</td>
<td>Central Booking, New York</td>
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<td>2009–2010</td>
<td>Peel Gallery, Texas</td>
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<td>2009</td>
<td>Art Cézar, Belgium</td>
<td>(invitational)</td>
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<td>2008–2009</td>
<td>Museum of Modern Art (MoMA), New York City</td>
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<td>2008</td>
<td>Museum of Modern Art (MoMA), New York City (catalog)</td>
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<td>2006</td>
<td>MIT Museum, Massachusetts</td>
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<td>2005</td>
<td>Massachusetts Institute of Technology, Massachusetts</td>
<td>(exhibit)</td>
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<td>2004</td>
<td><em>Building with Books: A Bibliophile's Bedroom</em> (traveling exhibit)</td>
<td>Boston Public Library, Massachusetts</td>
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<td>Massachusetts Institute of Technology, Massachusetts</td>
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**PUBLIC COLLECTIONS**

- 2017 Japan Information & Culture Center, DC
- 2017 University of Waterloo, Canada
- 2017 Chimei Museum, Taiwan
- 2017 MIT Women’s League, Massachusetts
- 2016 Mahoney Music Collection, University of South Dakota
- 2015 Nature in Art Museum, UK
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
2014 Morris Museum, New Jersey
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

2017  11th Asian Forum on Graphic Science, Japan  (plenary)
2017  Mathematical Congress of the Americas, Canada  (plenary)
2017  BRIDGES: Mathematics, Art, Music, Architecture, Education, Culture, Canada  (plenary)
2017  Museum of the White Mountains, New Hampshire  (plenary)
2017  The University of the West Indies, Barbados  (plenary)
2016  University of Washington, Washington  (plenary)
2016  International Conference on Mathematical Modeling and Applications: Origami-Based Modeling and Analysis, Japan  (plenary)
2016  19th Japan Conference on Discrete and Computational Geometry, Graphs, and Games, Japan  (plenary)
2016  Cornell University, New York  (plenary)
2016  Cornell University, New York  (plenary)
2016  University of Georgia, Georgia  (plenary)
2016  Networked Life: Celebrating the life and career of Fan Chung and Ron Graham, California  (plenary)
2016  2016 Information Theory and Applications Workshop, California  (plenary)
2015  MoSAIC Fest: Math of Science, Art, Industry & Culture, Massachusetts  (plenary)
2015  Connections in Discrete Mathematics: A celebration of the work of Ron Graham, Canada  (plenary)
2015  Hermitage Museum and Gardens, Virginia  (plenary)
2015  Museum of Science and Industry, Illinois  (plenary)
2015  Tufts University, Massachusetts  (plenary)
2015  Boston University, Massachusetts  (plenary)
2015  Detroit Institute of Arts, Michigan  (plenary)
2014  Museum of Glass, Washington  (plenary)
2014  10th Annual Center Institute, Massachusetts  (plenary)
2014  Icelandic Centre of Excellence in Theoretical Computer Science, Iceland  (plenary)
2014  20th Origami Tanteidan Convention, Japan  (plenary)
2014  38th ASME Mechanisms & Robotics Conference, New York  (plenary)
2014  7th International Conference on Fun with Algorithms, Italy  (plenary)
2014  OrigamiUSA Annual Convention, New York  (plenary)
2014  Vienna University of Technology, Austria  (plenary)
2014  Centre College, Kentucky  (plenary)
2014  Community Arts Center, Kentucky  (plenary)
2014  Dallas Contemporary, Texas  (plenary)
2014  Make/Speak, Massachusetts  (plenary)
2014  North Carolina State University  (plenary)
2014  Museum of Fine Arts, Florida  (plenary)
2013  University of the Arts, Pennsylvania  (plenary)
2013  Edwards Art Gallery, New Hampshire  (plenary)
2013  Lafayette College, Pennsylvania  (plenary)
2013  University of Electro-Communications, Japan  (plenary)
2013  Komaba Museum, Japan  (plenary)
2013  Haystack Mountain School of Crafts, Maine  (plenary)
2013  GlassBoston, Massachusetts  (plenary)
2013  Canadian Mathematical Society Summer Meeting, Canada  (plenary)
2013  University of Kentucky, Kentucky  (plenary)
2013  Kansas State University, Kansas  (plenary)
2013  Museum of Mathematics, New York  (plenary)
2013  Renwick Gallery, DC  (plenary)
2012  National Tsing Hua University, Taiwan  (plenary)
2012 Academia Sinica, Taiwan (plenary)
2012 Two Sigma Investments, New York (invited)
2012 3rd Annual Gathering for Gardner Celebration of Mind, Massachusetts (plenary)
2012 Dorsky Gallery, New York (plenary)
2012 Cairo Science Festival, Egypt (plenary)
2012 Cambridge Science Festival, Massachusetts (plenary)
2012 Kentucky Section Meeting of the Mathematical Association of America, Kentucky (plenary)
2012 Southeastern Section Meeting of the Mathematical Association of America, Georgia (plenary)
2012 Louisiana/Mississippi Section Meeting of the Mathematical Association of America, Louisiana (plenary)
2012 Fuller Craft Museum, Massachusetts (plenary)
2012 Carnegie Institution for Science, DC (plenary)
2011 University of Maryland, Maryland (invited)
2011 Fields Institute, Canada (plenary)
2011 Michigan Section Meeting of the Mathematical Association of America, Michigan (plenary)
2011 79th Annual Wisconsin Section Meeting of the Mathematical Association of America, Wisconsin (plenary)
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 (invited)
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)
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.
“Origami Math: Computational artists to show off paper masterpieces in tribute to UCSC professor” by Tanya Lewis, Santa Cruz Sentinel, Mar. 2012.
“Rubik’s cubes of any size can now be solved” by Jacob Aron, June 2011.
“Magic numbers: A meeting of mathemagical tricksters” by Alex Bellos, New Scientist, Mar. 2010.
“Math, Art, and Origami at MIT” by Emily Stone, Popular Science, Apr. 2009.
“De Mozarts van de wiskunde” by Dirk Huylebrouck, De Standaard, Jan. 2009.

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**

Rare Craft Fellowship Award, American Craft Council, 2016
Guggenheim Fellow, John Simon Guggenheim Memorial Foundation, 2013

**Erik D. Demaine**

Rare Craft Fellowship Award, American Craft Council, 2016
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