

El fabuloso arte del origami computacional

Escrito por Marta Macho Stadler
Viernes 23 de Marzo de 2012 15:30

Nadie puede negar que el arte del [origami](#) tiene una estrecha relación con las matemáticas y la computación: para convencerte -si no lo tienes claro- mira por ejemplo el artículo de

[José Ignacio Royo Prieto](#)

titulado

[Matemáticas y papiroflexia](#)

(Sigma 21, 175-192, 2002) o la sección de

[Papiroflexia y Matemáticas](#)

coordinada por el propio José Ignacio y

[M^a Belén Garrido Garrido](#)

en DivulgaMAT.

Las matemáticas pueden ayudar a perfeccionar los proyectos de origami, pero también se puede aprender geometría plegando hojas de papel.



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"Curved Crease Sculpture", Erik Demaine (informático, MIT) y Martin Demaine (matemático y artista)

El ingeniero electrónico [David Huffman](#) fue pionero en el arte del **origami computacional**, es decir, aquella parte de la papiroflexia que utiliza las matemáticas y la informática para ayudar en el diseño de nuevas formas de origami. Huffman falleció hace 12 años, y la exposición

[***Origami: Art + Mathematics***](#)
le rinde un especial homenaje.

Aunque la [Eloise Pickard Smith Gallery](#) (Cowell College, UC Santa Cruz, EE.UU.) nos quede un poco lejos, podemos al menos disfrutar de [algunas de las imágenes](#) que allí se muestran:

April 8 – June 16, 2012
Gallery Hours:
11 am–4 pm, Tues.–Sun.
For more information
call (831) 459-2953.

The David A. Huffman Memorial Exhibition

ORIGAMI

ART + MATHEMATICS

at the Eloise Pickard Smith Gallery, Cowell College, UCSC

Artwork by **ROBERT J. LANG** **ERIK DEMAINE** **MARTIN DEMAINE** **BRIAN CHAN**
and rarely seen work by late origami masters **DAVID A. HUFFMAN** & **ERIC JOISEL**

What do paper koi, a space telescope and mathematical equations have in common?
Find out! The last decade of the 20th century witnessed a revolution in the development and application of mathematical techniques to origami, the centuries-old Japanese art of paper-folding. Much of that revolution was enabled by the application of a variety of mathematical techniques to the problem of design. "Origami: Art + Mathematics" honors the pioneering work of the late UCSC Professor of Information Science, David A. Huffman. Robert J. Lang and Erik Demaine will present slide lectures on this cross-disciplinary marriage of origami + mathematics. **Everyone's invited!**



Come see some of the most artistic+mathematical paper in the world

Green Fuse's award-winning independent film: "Between the Folds" will be shown continuously.



FAMOUS ORIGAMI ARTISTS WILL SPEAK AT RECEPTION : SUNDAY, APRIL 8

12:30 – 1:45 PM TECHNICAL LECTURE
Erik Demaine will present a slide lecture on David Huffman's foldings, followed by Robert Lang who will focus on some of the underlying mathematical laws of origami, as they can be applied to real-world origami problems, providing several examples of how the algorithms and theorems of origami design have shed light on long-standing mathematical questions and have solved practical engineering problems. *In the Cowell Conference Room.*

2:00 – 4:00 PM OPENING RECEPTION FOR EXHIBIT
Everyone's invited! Original rarely seen artwork by the late UCSC Computer Science Professor Emeritus David Huffman, MIT's Erik and Martin Demaine, MIT alumnus Brian Chan, Robert Lang, and a rare example of work by the late French origami wizard, Eric Joisel. All except Joisel are practitioners of technical folding. *At the Eloise Pickard Smith Gallery, Cowell College.*

4:30 – 6:00 PM SLIDE TALK FOR GENERAL PUBLIC BY ROBERT LANG AND ERIK DEMAINE
Robert J. Lang, PhD in Applied Physics, is widely recognized as one of the world's leading origami artists. In 2001, he left the engineering field and is now a full time origami artist and consultant. He is known for the complex and elegant realism in his designs. Erik Demaine's dissertation, "Folding and Unfolding" is considered a seminal work in the field of computational origami. He joined the MIT faculty in 2001 at age 20 and in 2003 received a MacArthur Fellowship. His origami sculptures are realizations of complex and innovative mathematical algorithms. *In the Humanities Lecture Hall, Cowell College.*

6:00 PM
Also in the Humanities Lecture Hall, Cowell College, directly following the slide lectures.

PRESENTATION OF THE HUFFMAN PRIZE
The Huffman Prize honors the memory and the legacy of namesake—David Huffman (1925–1999)—Computer Science Professor Emeritus. The Prize is awarded annually to a Baskin School of Engineering graduate senior whose academic career at UCSC is of extraordinary depth of inquiry and overall excellence.

Students apply in the Quarter by submitting letters of recommendation from faculty, and documents of noteworthy projects or unusual accomplishments. Recipients are selected by a faculty committee. Contact the department for more information.

Koi origami, at top, by Robert J. Lang. Row above, from left to right: artwork by Brian Chan, Erik and Martin Demaine, Eric Joisel, and David A. Huffman. All images copyrighted and used with permission. Poster design and production donated by Huffman Design, (831) 423-6012.

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