

Krystyna Burczyk (b. 1959)

Mathematician, teacher, artist. Originally from Poland, living in Portugal.

I graduated from Jagiellonian University in Krakow, Poland in 1983 in pure mathematics. I have more than 20 years of experience as a math teacher. I started interest in origami in 1995.

My mathematical background pushed me towards geometric art. Mathematical structure of origami models and folding process as well as relation of origami to mathematics has been in the center of my interest from that time. I am also interested in educational applications of origami.

I am an author of six origami books and several booklets.

I was invited to participate in large international origami exhibition *Masters of Origami* exhibited in Salzburg 2005 and Hamburg 2007.

I have also participated in the exhibition *Folding Paper: The Infinite Possibilities of Origami* which started in Japanese American National Museum, Los Angeles, USA in 2012 and later travelled until 2016 around various art galleries around USA. Finally the exhibition and my works found home at Museo del Origami in Colonia del Sacramento, Uruguay.

I had three exhibitions in Hungary: *Origami Geometry* with Endre Somos in Pécs (2010), *Poskładane myśli* (Folded Thoughts) in the Polish Institute in Budapest (2015) and at the Symmetry Festival in Budapest (2009).

In 2016 I participated in the exhibition *Mujeres de Papel* in Zaragoza, Spain.

In 2018 I had an individual exhibition *Papel, Dobragens e ... Matemática* at the Science Gallery (Galeria Ciências) of the University of Lisbon as well as an exhibition at the Recreational Mathematics Colloquium VI at the Science Museum (MUHNAC) in Lisbon.

In 2019 my exhibition *Entre papel e matemática* took place at Sala de Exposições Hélène de Beauvoir (University of Aveiro, Portugal).

My works were exhibited several times at the art exhibitions of Bridges, Mathematical Connections in Art, Music, and Science – in Pecs, Hungary (2010), Coimbra, Portugal (2011), Enschede, The Netherlands (2013), Seul, Korea (2014), Jyväskylä, Finland (2016), Stockholm, Sweden (2018) and Halifax, Canada (2023). In 2018 my two works were presented in the nominee gallery.

In 2000 I curated the exhibition *Origami – tradycja i współczesność* (Origami – traditional and contemporary) at The Manggha Museum of Japanese Art and Technology (Kraków, Polska). From 2015 I am running an art project MAP (Math Art Paper) at the Mathematics and Computer Science Department at the Jagiellonian University in Krakow, Poland. The project embraces series of origami exhibitions I curate as well as I exhibit my works. I have also curated origami exhibitions at the Congresses of Young Mathematicians (Warszawa, Zielona Góra, Kraków) and Science Festival in Warszawa, Poland as well as local origami exhibitions in Bochnia, Poland.

My works were exhibited at numerous origami conventions over the world in Czech Republic, France, Germany, Hungary, Italy, Japan, The Netherlands, Poland, Singapore, Spain, Sweden, Switzerland, UK, USA, Colombia. I regularly give workshops at the origami conventions and publish diagrams for my creations at the publications of the origami societies around the world. I was invited as a guest of honor for the origami conventions organized by Hungarian, Swiss, Romanian and German origami organizations.

I gave lectures on theoretical and educational aspects of origami at Origami Science Math and Education (OSME) conferences in Asilomar, USA (2001), Pasadena, USA (2006), Singapore (2010), Tokyo, Japan (2014) as well as Didaktik des Papierfaten conferences in Freiburg, Germany and Badalona, Spain. In 2014 I participated in the international educational project Visual Math and contributed a chapter to the book Visual Math, Adventures on Paper. Math Based Activities for Experience-Centered Education of Mathematics. The book was printed in English, Hungarian and Serbian.

My works were placed at the covers of books and journals: Bridges Pécs Mathematics, Music, Art, Architecture, Culture. Proceedings 2010; Bridges Pécs Mathematics, Music, Art, Architecture, Culture. Exhibition 2010; Bridges Stockholm 2018 Mathematics, Art, Music, Architecture, Culture. Proceedings; Origami 5: Fifth International Meeting of Origami Science, Mathematics, and Education; 5 OSME abstracts; Revista de Ciência Elementar vol 6-2 as well as published in Origami USA calendar and Mathematics Calendar published by American Mathematical Society.

I have started and run for ten years the working group *Origami and Mathematics* in the Association of Teachers of Mathematics in Poland.

I have started and run for 17 years a local origami group, Galician Group of Origami in Kraków, Poland. The group organized every year an international convention Outdoor Origami Meeting where I played a leading role including curation of the convention exhibition.

I coordinated the participation of a Polish group of teachers invited to the Didaktik des Papierfaten conference in Freiburg as a collective guest of honor as well as participation of the Polish origami artists in the international project Origami Europe led by the British Origami Society.

Nick Robinson in The Encyclopedia of Origami (Running Press, 2004) and Lynn Gamwell in Mathematics and Art: A Cultural History (Princeton University Press, 2015) covered my art.