

Experience STEAM: Synergies in Action!



Kristóf Fenyvesi, PhD (b. 1979) – is a researcher of STEAM (Science, Technology, Engineering, Arts and Mathematics) Trans- and Multidisciplinary Learning and Contemporary Cultural Studies in Finland, at the **Finnish Institute for Educational Research, University of Jyväskylä** (<https://ktl.jyu.fi/en>). He is the **Vice-President** of the world largest mathematics, arts and education community, the **Bridges Organization** (www.bridgesmathart.org). His main responsibilities include the coordination of the annual **Bridges conference's Workshop Paper track** and the **Bridges Family Day** (www.familyday.hu). From 2016, he is a member of the

European Mathematical Society's Committee for Raising Public Awareness. Between 2013-2017 he served as **Chief Executive Officer of International Symmetry Association** (www.symmetry.hu) and in 2008 he started **Experience Workshop—International Math-Art Movement for Experience-oriented Education of Mathematics** (www.experienceworkshop.org). He has been invited by **European Commission** as a **STEAM expert for various H2020 and Erasmus+ projects' evaluation**. His main areas of research are mathematics and art connections in learning; STEAM education; inquiry-based, cooperative, playful and experience-oriented approaches in mathematics education; problem-solving in mathematics, in science and in art education; connecting hands-on activities and digital modeling in mathematics, science, art and design education; science & art connections in learning; phenomenon-based, multi- and transdisciplinary learning and co-teaching; inter-, cross-, multi- and transdisciplinary management and trans-curricular leadership in education; interdisciplinary aesthetics and philosophy. Fenyvesi's articles have appeared on fora such as *The Notices of the American Mathematical Society*, *MAA Focus – Newsmagazine of the Mathematical Association of America*, *Nexus Network Journal*, *The Mathematical Intelligencer* and *Comparative Philosophy*. He has edited a number of math-art-education handbooks, including *Aesthetics of Interdisciplinarity: Art and Mathematics* (Springer-Birkhauser, 2017. Together with Tuuli Lähdesmäki) and other resources of mathematics&arts learning. He serves in the editorial board of several scientific journals, including Taylor & Francis' *Journal of Mathematics and the Arts*. He has been very active in organizing various international scientific events, education programs, exhibitions and STEAM workshops and festivals all around the globe. Between 2012 and 2014 Fenyvesi served as **University of Jyväskylä's** local coordinator of the *VISUALITY & MATHEMATICS – Experiential Education of Mathematics through Visual Arts, Sciences and Playful Activities* Tempus Project, which was planned and executed with the collaboration of 8 European scientific institutions, partially based on the ideas summarized in his research papers. This project aimed to support the development of mathematics education with experience-centered methods and tools for the classroom work. The participants of the project (1) conducted a comprehensive attitude research in connection with the experience-centered mathematics education in Serbia; (2) organized international student visits for Serbian MA and PhD students to the partner universities in the European Union; (3) and organized a series of European Summer Schools for Visual Mathematics and Education for students of mathematics education and practicing teachers from Serbia and all over from Europe. Fenyvesi serves as **University of Jyväskylä's** local coordinator of Erasmus+, H2020 and other projects. In 2015-2016 he also served as the scientific secretary of **Bridges Finland 2016 Conference** (www.bridgesmathart.org/bridges-2016/) and worked in the steering committee of **Symmetry Festival 2016 at Vienna University of Technology** (<http://festival.symmetry.hu/>).

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