



Atelier : Les femmes en mathématiques à l'époque de la COVID  
8 mars 2021

Workshop: Women in Mathematics during the time of COVID  
March 8, 2021

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**Uniformization of surfaces via harmonic maps**

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The uniformization theorem for Riemann surfaces was one of the landmark achievements in the mathematics of the 19th and early 20th centuries. The result and its various proofs have had a major impact on several fields of mathematics, including complex analysis, geometry, combinatorial group theory, and topology. In the past few decades, there has been a growing interest in non-smooth spaces and in their corresponding analysis. From this perspective, it is natural to examine the uniformization of non-smooth geometry. In this talk, we discuss the uniformization of a CAT(k) sphere using harmonic maps. This is joint work with Christine Breiner.