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Anneke Bart* (barta@slu.edu), Dept of Mathematics and Computer Science, 220 N Grand Blvd; Ritter Hall 115, St Louis, MO 63103. *Teaching hyperbolic geometry using the works of Escher and Gaudi.*

Hyperbolic geometry can be taught in a freshman course using the work of Escher as a starting point. His circle limits are a wonderful illustration of the Poincare disk model. An additional collection of examples comes from the work of the Spanish architect Antoni Gaudi. This presentation will discuss ideas on how to make this topic accessible to freshmen. The materials are based on a course taught at Saint Louis University. (Received September 16, 2012)