

VCU Discrete Mathematics Seminar

*On the strongest form of a theorem of Whitney
for hamiltonian cycles in plane triangulations*

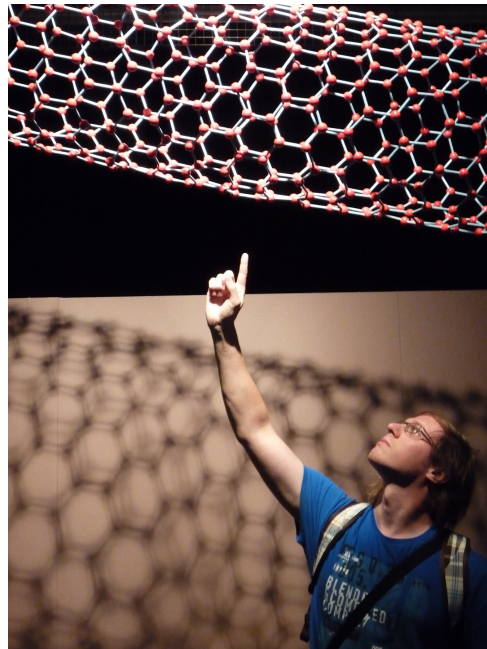
Nico Van Cleemput
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Tuesday, September 2

12:30–1:20

4119 Harris Hall

The question whether for a given graph a hamiltonian cycle exists is NP-complete, even when restricted to the class of plane triangulations. However, in 1931 Whitney proved a sufficient condition: each plane triangulation containing no non-facial cycle of length 3 is hamiltonian. More than 70 years later, Jackson and Yu succeeded in finding a considerably stronger sufficient condition which is also based on the non-facial cycles of length 3. In this talk we will discuss what the strongest form of this condition might be. The results were obtained using a combination of computational results and theoretical results, and both will be explained.



This is the first talk of the Fall 2014 seminar! For more information on our fall schedule, see: <http://www.people.vcu.edu/~dcranston/DM-seminar/>