



Cross-Disciplinary Interplay
between the Humanities,
Technology and Musical Practice

**Thursday,
February 2, 2012.
2:15-4 p.m. in U73.**

Guest lecture in the seminar
series

**Topics in the Aesthetics
of Music and Sound,**

<http://soundmusicresearch.org/seminarsspring2012.html>

On Sound Segregation and Music

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Abstract: The basis of our perception of music is our sense of hearing, and the constraints of our auditory system also constrain our musical world. The sense of



hearing can be traced back to the earliest animals and has evolved to serve several purposes, one of which is sound communication. One of the fundamental tasks of hearing is to assign sound components to sound sources, also called 'Auditory Scene Analysis'. This is a very complicated task, since these components arrive as a mixture on our two eardrums and must be sorted out by intensive processing by the auditory pathway. The

processing has great consequences for our perception of melody, consonance, location, and timbre and melodies.

In the talk I will address the auditory processes that aid in sound source segregation and give some examples of applications in polyphonic music.

ALL ARE WELCOME!