**Music Information Retrieval –**

**User-centered approach**

**GLIS 692**

Tentative course outline

Elective course – Fall 2015
Fridays 8:35-11:25, rm. 106 School of Information Studies, 3661 Peel

Instructor: Prof. Catherine GUASTAVINO, catherine.guastavino@mcgill.ca
Office hours: by appointment, 3661 Peel, rm. 201, (514) 398-1709.

Always use your McGill address to communicate with me via e-mail.

## Learning outcomes

- To acquire knowledge of terminology and principles of Music Information Retrieval (MIR) with a focus on the users of MIR systems.
- To understand recent developments and applications in MIR.
- To critically discuss research methods and findings from user studies in MIR.
- To design and pilot a user study in Music Information Retrieval.

## Course content

- Foundations of Music Information Retrieval
- System-centered and user-centered approaches
- Digital audio
- Auditory perception
- Music representations
- Music feature extraction
- Content-based and context-based description
- Online music databases
- Relevance for music
- Similarity measures
- Music Information Behavior
- Experimental design considerations
- User studies

## Instructional methods

Lectures, seminars, guest lectures, and student presentations.

**Readings for weeks 1-3**

Downie, J. S. (2003). Music information retrieval. Annual Review of Information Science and Technology, 37, 295-340.

Lee, J. H., & Cunningham, S. J. (2013). Toward an understanding of the history and impact of user studies in music information retrieval. *Journal of Intelligent Information Systems*, 41(3), 499–521.

Orio, N. (2006). Music retrieval: a tutorial and review, Foundations and Trends in Information Retrieval, 1(1), 1-90.

Schedl, M., Gómez, E. & Urbano, J. (2014). Music Information Retrieval: Recent Developments and Applications, Foundations and Trends in Information Retrieval, 8(2-3),127-261, Now Publishers.

Weigl, D. M., & Guastavino, C. (2011). User studies in the music information retrieval literature. In *Proceedings of the 12th International Society for Music Information Retrieval conference (ISMIR 2011), Miami, USA*, 2011.

Weigl, D.M., & Guastavino, C. (2013). Applying the Stratified Model of Relevance Interactions to Music Information Retrieval. In Proceedings of the 76th Association for Information Science & Technology Annual Meeting (ASIS&T 2013), Nov. 1-5. Montreal, QC, Canada.

Catherine Guastavino, June 2015.