## University of Rochester Department of Electrical and Computer Engineering Colloquia Series

Crowdsourcing Audio Production Interfaces

Bryan Pardo Associate Professor Northwestern University

Wednesday, April 13th 12:00PM – 1:00PM Computer Studies Building (CSB) 209

Abstract: Potential users of audio production software, such as audio equalizers, may be discouraged to complexity of the interface and a lack of clear affordances in typical interfaces. We seek to simplify interfaces for task such as audio production (e.g. mastering a music album with ProTools), audio tools (e.g. equal and related consumer devices (e.g. hearing aids). Our approach is to use an evaluation (this sound better than that sound") and the use of descriptive language (e.g. "Make the violin sound warme build interfaces that use descriptive language, a system must be able to tell whether the stated goal is appropriate for the elected tool (e.g. making the violin "warmer" with a panning tool does not make sens the goal is appropriate for the tool, it must know what actions need to be taken (e.g. add some reverbed ation). Further, the tool should not impose a vocabulary on users, but rather understand the vocabulary users this talk, Prof. Pardo describes recent work in evaluative interfaces (SynthAssist), crowdsourcing a vocabulary on users, but rather understand the vocabulary or refer bullanguagebased production tools (SocialEQ) and languagebased interfaces for poduction tools (Reverbalize).

Bio: Bryan Pardo, head of the Northwestern University Interactive Audio Lab, is an associate professor in the Northwestern University Department of Electrical Engineering and Computer Science. Prof. Pardo received at M. Mus. in Jazz Studies in 2001 and a Ph.D. in Computer Science in 2005, both from the University of Michigan. He has authored over 80 peeriewed publications. He has developed speech analysis software for the Speech and Hearing department of the Ohio Statetsiriy, statistical software for SPSS and worked a machine learning researcher for General Dynamics. While finishing his doctorate, he taught in the Music Department of Madonna University. When he's not programming, writing or teaching, he performs throughout the United States on saxophone and clarinet at venues such as Albion College, the Chicago Cultural Center, Detroit Concert of Colors, Bloomington Indiana's Lotus Festival and Tucson's Rialto Theatre.

Light Refreshments Provides