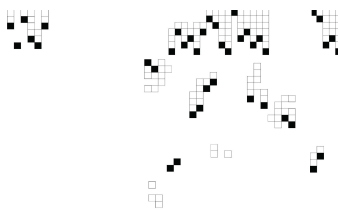


## Regina Collecchia: Publications and Presentations

- **R. Collecchia**, J. S. Abel, S. Coffin, E. Callery, Y. H. Yeh, K. Spratt, J. O. Smith III. “On the acoustics of alleyways.” *Proc. of the 137th Audio Engineering Society Convention*, Los Angeles, October 2014. Abstract [here](#).
- **R. Collecchia**, D. Somen, & K. McElroy. “The Siren Organ.” *New Interfaces in Musical Expression*, London, June 2014. Available [here](#).
- Presented at the Stanford **d.school** in April 2014 on the future of audience participation in music.
- M. Zbyszynski, D. Zicarelli, & **R. Collecchia**. “Fzero~: Fundamental Estimation for Max 6.” *Proc. of the 2013 International Computer Music Conference*, Perth, September 2013. Available [here](#).
- **R. Collecchia**, M. A. Kolar, & J. S. Abel. “A computational acoustic model of the coupled interior architecture of ancient Chavín.” *Proc. of the 133rd Audio Engineering Society Convention*, October 2012. Available [here](#).
- P. Zahorik, D. O. Kim, S. Kuwada, P. W. Anderson, E. Brandewie, **R. Collecchia**, & N. Srinivasan. “Amplitude modulation detection by human listeners in reverberant sound fields: carrier bandwidth effects and binaural versus monaural comparison.” *Proc. of the Acoustical Society of America*, June 2012. Available [here](#).
- Gave a lecture in April 2012 at **San Francisco State University** to computer music students on the relevance of the discrete Fourier transform to music.
- **R. Collecchia**. *Numbers & notes: An introduction to musical signal processing*. Portland, OR: Perfectly Scientific Press, March 2012, 318 pages. Available [here](#).



An Introduction to  
Musical Signal Processing  
REGINA COLLECCHIA

- **Sole author of a scientific book** on the physical, musical, psychological, and digital behaviors of sound with a special focus on the mathematics of the discrete and fast Fourier transforms. The book was published in March 2012. In early 2014, PSI Press went out of business, but a PDF of the book is available [here](#).

- Freelance contributor for **Create Digital Music** and **Keyboard Magazine**. Samples: [CDM article](#) on the DSI Prophet 12; [Keyboard Mag review](#) of SRS Labs' MDA system.
- **R. Collecchia**. "The Entropy of Musical Classification." Senior thesis Reed College, 2009, 113 pages. Available [here](#).