

Ignacio Spiousas

PhD

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*"Information is not knowledge. Knowledge is not wisdom.
Wisdom is not truth. Truth is not beauty. Beauty is not love.
Love is not music. Music is the best..." – Frank Zappa*

Education

- 2009-2014 **PhD in basic and applied science**, *Universidad Nacional de Quilmes*, Quilmes, Argentina.
Application of sonic crystals for resonant cavities and sound source localization
- 2002-2008 **Mechanical Engineer**, *Universidad Nacional de Mar del Plata*, Mar del Plata, Argentina.
- 1997-2001 **Bachelor**, *Colegio Nacional A.U. Illia*, Mar del Plata, Argentina.

Research Interests

- Sound source localization
- Psychophysics
- Acoustic meta materials

Publications

- 2012 **Directional impulse response of a large cavity inside a sonic crystal.**, *Spiousas, Ignacio and Eguia, Manuel C*, *The Journal of the Acoustical Society of America*.
- 2011 **Experimental realization of broadband tunable resonators based on anisotropic metafluid.**, *Spiousas, Ignacio and Torrent, Daniel and Sánchez-Dehesa, José*, *Applied Physics Letters*.

Presentations

- 2013 **Shifts in the judgement of distance to a sound source in the presence of a sonic crystal**, *Ignacio Spiousas, Pablo Etchemendy, Esteban Calcagno and Manuel Eguia*, 21st International Congress on Acoustics ICA-ASA, Published online on Proceedings of Meetings on Acoustics (POMA).
Montreal, Canada
- 2012 **Influence of two-dimensional sonic crystal on auditory depth perception of filtered bands**, *Ignacio Spiousas, Pablo Etchemendy, Esteban Calcagno and Manuel Eguia*, Congreso Anual de la Sociedad Argentina de Neurociencias.
Huerta Grande, Argentina

- 2012 **Influence of sonic crystals on sound source localization**, *Ignacio Spiouzas, Pablo Etchemendy, Esteban Calcagno and Manuel Eguía*, Jornadas Interdisciplinarias de Acústica, UTN FRC.
Córdoba, Argentina
- 2010 **Modal analysis and transient response of a sonic crystal room**, *Ignacio Spiouzas and Manuel C. Eguía*, Second pan-American/Iberian Meeting on Acoustics.
Cancun, Mexico
- 2009 **Design of a musical venue based on Sonic Crystals**, *Ignacio Spiouzas and Manuel C. Eguía*, IV Jornadas del Teatro Acústico, Universidad Nacional de Quilmes.
Bernal, Argentina
- 2009 **Demonstration of sound diffusion devices based on Sonic Crystals**, *Ignacio Spiouzas, Nicolás Diccilia and Manuel C. Eguía*, I Jornada de Puertas Abiertas del LAPSO, Universidad Nacional de Quilmes.
Florencio Varela, Argentina
- 2009 **Parallelization of a discrete problem solver framework using OpenMP**, *Ignacio Spiouzas*, Degree Thesis, Universidad Nacional de Mar del Plata.
Mar del Plata, Argentina

Experience

Teaching Assistant

- 2014 **Applied Mathematics to Digital Arts**, *Instituto Universitario Nacional del Arte*, Buenos Aires, Argentina.
- 2012-... **Physics II**, *Universidad Nacional de Quilmes*, Quilmes, Argentina.
- 2010-2011 **Acoustic and Instrumentation**, *Universidad Nacional de Lanús*, Lanús, Argentina.
- 2010 **Physics I**, *Universidad Nacional de Quilmes*, Quilmes, Argentina.
- 2006-2008 **Computational Fluid Dynamics**, *Universidad Nacional de Mar del Plata*, Mar del Plata, Argentina.
- 2006 **Continuum Mechanics**, *Universidad Nacional de Mar del Plata*, Mar del Plata, Argentina.
- 2005-2008 **Fluid Mechanics**, *Universidad Nacional de Mar del Plata*, Mar del Plata, Argentina.
- 2004-2005 **Computation**, *Universidad Nacional de Mar del Plata*, Mar del Plata, Argentina.

Professional

- 2007-2008 **Industrial Integrity Project Assistance**, *GIE s.a.*, Mar del Plata, Argentina.
- 2007 **Intern**, *Ternium Siderar*, San Nicolás, Argentina.
- 2005-2006 **FEM Model Assistant**, *Universidad Nacional de Mar del Plata*, Mar del Plata, Argentina.

Honors and Scholarships

- 2014 **International Student Grant**, *Acoustical Society of America*.
- 2014 **Postdoctoral Scholarship**, *Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET)*.
- 2012 **Travel and mobility grant for young researchers (VIEF 12)**, *Universidad Nacional de Quilmes*.

- 2012 **ICA Young Scientist Grants, 21st International Congress on Acoustics, International Commission for Acoustics.**
- 2010 **Travel and mobility grant for young researchers (VIEF 09), Universidad Nacional de Quilmes.**
- 2009 **PhD Scholarship, Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET).**
- 2009 **Best Grades Award in Mechanical Engineering Degree (December 2008 - November 2009), Universidad Nacional de Mar del Plata.**
- 2009 **Distinguished Graduate Diploma, Universidad Nacional de Mar del Plata.**
- 2007-2008 **PROMEI Scholarship, Universidad Nacional de Mar del Plata.**
- 2005-2006 **Research Scholarship UNMDP (advanced student), Universidad Nacional de Mar del Plata.**

Collaborations

- 2011 **Espaces acoustiques et cognitifs, Ircam, Paris, France.**
Acoustic characterization of convolution-based reverberators
- 2010 **Wave Phenomena Group, Universidad Politécnica de Valencia, Valencia, Spain.**
Anisotropic mass density by angular periodic fluid structures

Computer skills

- Languages MATLAB, C, Fortran, OpenMP, Pure-Data
- Packages MATLAB, Comsol, ABAQUS

Languages

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|---------|-----------------|--------------------------------------|
| Spanish | Fluent | <i>Native language</i> |
| English | Advanced | <i>Speaking, reading and writing</i> |
| French | Begginer | <i>Speaking and writing</i> |