



Lucian Zigoneanu, PhD

Low Yield Analysis Engineer

Member ARA since: 2014

Address: Intel Corporation
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Discipline: Electrical Engineering/Materials Science

INTERESTS:

Electrical Engineering, Chipset Manufacturing

Metamaterials, Technology Development, Process Engineering,

EXPERIENCE:

Intel Corporation: 2014 – PTD Low Yield and Integration Engineer

Duke University: 2013 – 2014 – Associate in Research (postdoc)

Duke University: 2008 – 2013 – Graduate Assistant Research (PhD student)

AWARDS (SELECTED)

- Special Mention for Best Romanian Student Abroad (postdoc, 2014);
- Nominated for inclusion in Who's Who in America (2014);
- 3rd place Student Poster Competition, NC-ASA meeting, Concord NC (2011);

PUBLICATIONS (SELECTED)

- L. Zigoneanu, B. I. Popa, and S. A. Cummer. "Three-Dimensional Broadband Omnidirectional Acoustic Ground Cloak", Nature Materials (2014).
- B. I. Popa, L. Zigoneanu, and S. A. Cummer. "Tunable active acoustic metamaterials" Phys. Rev. B, (2013).
- Y. Xie, B. I. Popa, Lucian Zigoneanu, and S. A. Cummer, "Measurements of Broadband Negative Index in Space-Coiling Acoustic Metamaterials", Phys. Rev. Lett., (2013).
- L. Zigoneanu, B. I. Popa, S. A. Cummer, "Sound manipulation with acoustic metamaterials", Proceedings of the Internoise 2012/ASME NCAD meeting, New York NY (2012).
- D. Li, L. Zigoneanu, B. I. Popa and S. A. Cummer, "Design of an Acoustic Metamaterial Lens Using Genetic Algorithms, J. Acoust. Soc. Am., (2012).
- B. I. Popa, L. Zigoneanu, and S. A. Cummer. Experimental acoustic ground cloak in air. Phys. Rev. Lett., (2011).
- L. Zigoneanu, B. I. Popa, and S. A. Cummer. Design and measurements of a broadband two-dimensional acoustic lens. Phys. Rev. B, (2011).
- L. Zigoneanu, B. I. Popa, A.F. Starr, and S. A. Cummer. Design and measurements of a broadband 2D acoustic metamaterial with anisotropic mass density. J. Appl. Phys., 109:054906, (2011).