**DECLARATION OF CO-AUTHORSHIP**

Declaration of co-authorship is to be included when a thesis containing papers written by more than one author must include this signed declaration that describes the contribution of the candidate and the co-authors of each of the papers. It must be possible to identify the candidate's independent contribution in the work.   
*(cf. the PhD regulations section 10 or dr.philos regulations section 3).*

**Name of candidate: Jon Vegard Venås**

**Title of dissertation: Acoustic Scattering in an Isogeometric Framework**

**Publication:**

J.V. Venås, T. Jenserud “Exact 3D scattering solutions for spherical symmetric scatterers”, *Journal of Sound and Vibration* (2019) **440**:439-479

**Description of the Candidate’s contribution:**

The article is the original work of the candidate. The motivation of the article was inspired by a previous work from Trond Jenserud. All the underlying software and the numerical results are generated by the candidate. Jenserud has been active in the discussions related to the numerical examples. The introduction was jointly written by Venås and Jenserud, whereas the other sections are written by Venås and revised by Jenserud.

**Statement by the co-author:**

I hereby confirm that the doctoral candidate’s described contribution to this paper is correct, and I consent to including the paper in the named dissertation.

Trondheim, 27.09.2019

Trond Jenserud