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**NITHYA SUBRAMANIAM, B.Arch, MS (IIT Madras), (PhD – IIT Madras)**

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**OBJECTIVE:**

*A career in Architectural Acoustics with emphasis on architectural and interior design projects where my background in Architecture would be an added advantage.*

**PERSONAL INFORMATION<sup>i</sup>**

Name : Nithya Subramaniam

Date of Birth : 30/04/1981

Marital Status : Married

Languages Known : English, Tamil, Malayalam & Hindi.

Occupation : PhD research scholar, IIT Madras,  
Chennai

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## GRADUATE STUDY

- Degree Pursuing : Master of Science (MS by research)
- Area of Research** : **Acoustical Studies in listening environments**  
Currently being pursued as my M.S thesis work, this is an architectural acoustics project focusing on the acoustical characteristics of university classrooms in the Indian scenario. It involves developing a model based on experimental studies, simulation studies using the software *Class talk*, subjective questionnaire surveys with the instructors and students to evaluate the *Perceived listening ease* score, to aid the architect in design of classrooms in Indian environments for maximizing the speech intelligibility.
- Research coordinator : Dr.A.Ramachandraiah, Professor, IIT Madras
- Department : Building Technology division, Civil Dept.  
Indian Institute of Technology, Madras
- CGPA : 8.4 (10 point scale)
- Major Courses Studied : Building Acoustics and Noise Control  
Functional Efficiency of Buildings  
Modern Construction Materials  
Building Services  
Building Sciences Lab
- Field Experience : Done in-situ studies of acoustical parameters along with questionnaire surveys in classroom environments
- Other Field Studies : As a part of half time research assistance ship (HTRA), assisted Dr.Ramachandraiah in several acoustical designs and treatments and noise studies.
- Classes handled : As a part of the HTRA scheme, handled building acoustics classes for M.Tech, M.S and PhD students. Also helped in the preparation of the course material.

- Computer Software : AutoCAD, Adobe Photoshop, SPSS, Microsoft Office, Sketch up, ArchiCad, CorelDraw.
- In Research Area* : Class talk, Ecotect, Solo 1dB software
- Instrumentation Used : Thermal comfort – Bruel & Kjaer (type 1212), Data logger – HP Bench link (type 31970 A), Sound level meter – Bruel & Kjaer, 01 dB – stell Solo, BKB 4224 sound source, Norsonic Type 118, Lux meter – Lichme ßtechnik Berlin, Helmholtzstr.9, D – Berlin 10, Brightnessmeter – Minolta, Vibration Meter – Bruel & Kjaer.
- Scholarships/Awards : Receiving a monthly scholarship of 5000/- under the HTRA scheme.  
Awarded a medal for ‘**Best Overall Performance**’ in academics during Bachelors in Architecture (1999)  
My paper titled ‘An evaluation of the acoustical characteristics of lecture rooms’ bagged the ‘**Best paper award**’ at the National Symposium on Acoustics at Bangalore (NSA 2005)
- International Exposure : Worked as part of a student team for an Indo-US project for a period of 6 months (Nov 2005 – April 2006) with the **Auburn University (U.S.)** students and visited the university in April 2006 for project presentations.
- Work experience** : **1 Year Experience**  
Worked at ‘*the inside*’ at Cochin for three months and handled interior projects for Le Meridian & Taj group and site supervisions of Cochin international airport. Design of cottages interiors at the Kovalam hotels at Trivandrum.  
Worked at the ‘**D’Sign Group**’ at Coimbatore for nine months and handled several residential projects, apartments, shopping complexes and also interiors for office spaces.

## PUBLICATIONS BASED ON RESEARCH WORK

(1)Nithya Subramaniam, A.Ramachandraiah, ‘**An evaluation of acoustical characteristics of lecture rooms**’, *Journal of the Acoustical Society of India*, NSA 2005 (Held at Bangalore).

(2) Nithya Subramaniam, A.Ramachandraiah, ‘**Speech Intelligibility Issues in Classrooms – A review**’, *Journal of Institution of Engineers, India*, Vol. 87, Oct 2006, pp 29 – 33.

(3)Nithya Subramaniam, A.Ramachandraiah, ‘**Prediction of speech intelligibility in Lecture rooms**’, *Journal of the Acoustical Society of India*, NSA 2006 (Held at Delhi).  
*International conference*

1) Nithya Subramaniam, A.Ramachandraiah, ‘**An evaluation of the acoustical characteristics of classrooms in tropical environments**’ *communicated to 153<sup>rd</sup> meeting of the Acoustical Society of America* to be held at Salt Lake city, Utah, June 2007.

2) Subramaniam, N., and Ramamurthy, K. (2019). “**Influence of classroom acoustics on student presentations.**” *INTER-NOISE 2019 MADRID - 48th International Congress and Exhibition on Noise Control Engineering.*

*International Journal*

Subramaniam, N., and Ramamurthy, K. (2020). “**Effect of mode of delivery and background noise on speech characteristics of talkers in a classroom environment.**” *Building Acoustics.*

## UNDER GRADUATE STUDY

Degree qualified	:	B.Arch
Institution	:	Adhiyamaan Engineering College, Hosur, TN
University	:	Periyar University, Salem, TN
Year of Graduation	:	2003
Class	:	I Class
Architectural Design projects	:	School, Institutional Library, High rise residential complex, Shopping centre, Residential school, Exhibition pavilion.
Rural Study	:	Study, documentation and Infrastructure development of Bukkasagaram village near Hosur, TN
Urban Study	:	Redevelopment of Mahatma Gandhi road and surroundings, Bangalore.

**Thesis** : ***“A study in the historic precinct of Kochi”***  
 The B- Arch project was a study that ran deep into the historic precinct of Kochi at the islands of Fort Kochi and Mattancherry where the ethnic communities lived. The study focused on the socio-spatial analysis of the setting from the time settlements began in the area. An examination of the life styles of the various communities and the development of spaces as a result of their social set up was analyzed. The present tourism attraction in the area put together with the under-utilization of these spaces due to the change in the life style and migration of ethnic communities were the main pointers in the study which resulted in the designs and rehabilitations along with proposals for reuse of the heritage buildings in the area to generate employment and also enhance tourism.

**Internships** : Underwent training for 9 months in the firm *‘the inside’* at Cochin as a part of the B.Arch academic curriculum.  
**Projects worked:** Interior design of Le Meridian hotel rooms and suites, restaurants of Taj Residency, Cochin.  
 Prepared an interior model of one of the suites in Le Meridian using wood and this was selected for NASA’s (National Association of students of Architecture) Reuben’s trophy.

**ACADEMIC RECORD:**

Course studied	Name of Institution	Year	% CGPA
Xth	ChinmayaVidyalaya,EKM	1996	82%
XIIth		1998	77%
B.Arch	Adhiyamaan Engg.College,Hosur	2003	71%
M.S.	IIT Madras	2007	8.4(10)
PhD	IIT Madras	-	9.8(10)

**COMPETITIVE EXAMINATIONS:**

Graduate Aptitude test for Engineering (GATE)	-	86% (2004)
Common Entrance Examination for Design (CEED)	-	87% (2004)

**EXTRA-CURRICULAR ACTIVITIES:**

1. Interested in music – like to sing and play the violin
2. Enjoy reading fiction

**REFERENCES:**

- (1) Dr. A.Ramachandraiah  
Professor  
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E-mail: [btarusha@iitm.ac.in](mailto:btarusha@iitm.ac.in)
- (2) Ar. Chidambara Swamy  
Faculty and Head @ Dept. of Architecture  
ACE, Hosur, TN  
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**I hereby declare that the information given above is true to the best of my knowledge.**

**PLACE: CHENNAI**

**SIGNATURE**

**(NITHYA SUBRAMANIAM)**