

THE JOURNEY OF A THOUSAND MILES BEGINS WITH ONE STEP.

Berklee college of music

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Berklee college of music

Online education in music

- This was my thesis for my previous masters.
- Previous research by Enrich Alberich
- An opportunity to go in-depth presented itself
- But...

AN EVALUATIVE STUDY OF THE CURRENT PRACTICES IN SYNCHRONOUS ONLINE EDUCATION FOR INDIAN CLASSICAL MUSIC

A DISSERTATION

Submitted by

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SOLO

Can my musical background contribute to the compositional

1729

Going beyond the bar

how can I generate maximum impact!

Ear Training

The birth of an Idea . . .

and improvisational growth of my western counterparts?

Passion

Can I contribute to my own musical tradition in the process?

Goal

Strengths



The best thing I can bring to the table is something that combines my passion for teaching and sharing mind space , with my background and love for rhythm





SEVERAL MILES TO RAMANUJAM

A mathematical approach to thinking beyond the bar

A STUDY IN THE APPLICATION OF INDIAN RHYTHMIC CONCEPTS FOR WESTERN MUSICIANS



Valencia Campus

A lot of relevant information has been left out of this presentation keeping time in mind. But it can all be read in the submitted document.



The primary objective of the study is to develop a syllabus and material for Indian rhythmical ideas to be taught as a structured course to students at music universities.

Objective



To understand how Indian rhythmic compositions can be transcribed into western notation without compromising their aesthetic quality.

X



To write compositions in western notation in such a way that the original mathematical and poetical beauty will remain intact even when the transcriptions are sight-read without prior context.



To develop a written repertoire of compositions that creates a foundation for rhythmic interaction for musicians from other traditions with Indian musicians.

To identify rhythmic structures and ideas that is useful as compositional, performance ideas for other genres of music (with specific reference to jazz).

To understand, identify and incorporate Indian rhythmic exercises that are beneficial to western musicians in the context of structured course work.

To learn how to teach these concepts as a course for western musicians with little or no prior exposure to Indian classical music, by understanding different approaches to learning rhythm.

Need for Analysis

Challenge 1: I needed a hands on understanding of how western musicians approached Indian musical concepts.

> Challenge 2: I needed to learn to notate compositions in such a way that they weren't reduced to paper

> > **Challenge 3:** I needed to critically analyze similar endeavors in three categories - by western musicians & scholars, by Indian musicians & scholars and by students of both traditions.

The Ship of Theseus

- This is something that emerged out of reflection on the project, but for the sake of this presentation it is discussed at this stage
- The ship of Theseus, also known as Theseus' paradox, is a thought experiment that raises the question of whether an object which has had all its components replaced remains fundamentally the same object
- * Do the contents and concepts of this project remain Indian classical, that is, are the participants indulging in Indian music or ...

My so called complicated rhythmic background was reduced to mere quarter notes, eighth notes and rests

The Ego Crusher

Step 1: Learning to write and transcribe traditional Indian rhythmic compositions.

Challenge: Making an entirely oral tradition relevant to a written document.

DIDt

Critical Analysis of similar endeavors

- Analysis of books on the subject matter such as Sangeeta Akshara Hridaya, Indian rhythms for the drum set, Time in Indian classical music etc
- Analysis of video tutorials of different artists from both western and Indian traditions such as John McLaughlin, Ghatam Kartik, Pete Lockett, Steve Smith, Umayalpuram Sivaraman etc
- Reading of published research articles and other scholarly work on related areas
- Detailed discussions with Berklee professors Allan Chase, Yoron Israel, Enrich Alberich etc
- Transcription of material from all of these sources to incorporate into the proposed course work
- Understanding the scope of such concepts and analyzing their application across the musical spectrum

PLE 4.2 A theoretical model for rhythmic organization, incorporating *tāl* **n**ship with surface rhythm

An illustration of a unified model of rhythmic organization (durational) and qualitative (accentual) hierarch

FIGURE 1

A Sixteenth-Note Phrasing

FIGURE 2A

A 5/8 Phrasing

FIGURE 2B

Common elements from analysis

- Westerners approach vs Indians
- Majority designed for percussionists
- Limited notation often requiring knowledge of Indian music
- No coherent pathway of growth
- Limited application of concepts outside of context
- South Indian system favored over north
- No effective standard for notation of poetry

Western vs Indian musical conceptualization

- Kritis or bandishes vs Jazz standards Tala, laya, meter and the bar: Rhythmic organization of time Linear and non-linear and cyclicality of the timeline Oral vs written tradition: Notation ! Notation ! Notation ! Notation ! Eric Harland's approach to rhythmic development in drum solos Poetry in rhythm
- * Recognition of phrases and patterns beyond the bar

Thillanas in Jazz

- before.
- and rhythmically. It seemed the natural direction for this project.
- Thillanas chosen are those by 20th-21st century composers Shri composers of thillanas.

Adapting Indian ideas to Jazz isn't anything new, but I wanted particular melodic and rhythmic ideas to be captured in a way they haven't been done

Why **Thillanas** ? The tillana is a distinct compositional form in Carnatic music that has highly precise mathematical development bothmelodically

Balamuralkrishna and Lalgudi Shri Jayaraman, regarded as the finest every

Notation

Notation

Notation

Notation ! Notation ! Notation !

s npm R, mpnś | Řán PM, pnář 2) š npm rmr mpnš | Řán Pmpm a kita tõm dhīm takita tõm dhī kita jham dhīm takita jham Ta kita tõm dhīm. takitatõm dhī kita jham dhīm. sis npM rmr mpn s Rmr snp mpm pn s Ř 4) sis npmp rmr mpn s Rmir snpn mpm Ta kitatōm dhīm... takitatōm dhī. kitajham dhīm... takitajham Ta.. kitatōm. dhīm... takitatōm dhī kitajham. dhīm... si Minnis np, snp Mn Pmr p atara tāni dhīm taratā ni dhīm tatāni dhīm ta tāni dhīm ta Dhīm dhīm CARANAM Mpnnp pmM. MM R mpM RN R io. la. mu. ru ganaik kā . na en. INPMPN, NP PMM MM PPMrmP pm m R.S. io. . la. mu ru ga naik kā . . na. en. mpnsis R; RR nS imi NR vē...la no e nai ē. no.. maran npmrmpnskis k. RR N, m mrmr n la no e nai e . no... ma 1ē mir N np M N, sn pmR; NR ā. la mõ. en kā . la mõ a_ri srmmp ny sin s, ns pnmp mtamta chimdhimta tajham takita jham

ANUPALLAVI

				-
S ;	rsnpnp P.R	R ;	smrpmn	pss
ņī	kāla. mel.	lām	kātti.	rùn.
S; ni	rsnpnp mmrr kā. la. mel.	R; lām	smrpmn kātti.	pss run.
Š ;	B) npmpns Rs R	; ŘŘ	NS	Ŕmŕ
dān	vē. la no	e nai	ē.	nō.
ŔŚ,	D) npmrmpnsk s R;	ŔŔ	N, ṕ ḿ	pm r
ran dan	vē lā nō	e nai	lē. nī	δ
S; yēn				
rm srn	rR MM NN FR tatām tadhīm tajham taṇan	ġģ m	, Ř mm	ŕř nr

TDh

Notation ! Notation ! Notation !

Ricardo and MT

Brindavani Thillana

Rumba

Rubato Opening Solo in Raga Brindavani Sarang

What was recorded

- 3 Thillana based compositions arranged by Ricardo Curto and Myself
- Mchale
- and myself
- Sambeat's ensemble

1 Thillana based composition composed by me and arranged by Stephen

2 Thillanas yet to be recorded, arranged by Juan Aliaga, Andjela Stevanovic

1 Thillana arranged by Ricardo Curto and myself is being played in Perico

Observations based on Thillanas

The clave on the mand thillana Moving beyond the bar with the revathi thillana The melodic storyline with the Kalyani thillana Breathing space for wind instruments Harmony outside the raga Identifying phrases rather than bars It did not survive the ship of theseus Different approaches to rhythmic accompaniment Does every jazz piece require a solo in the traditional sense Cadences and Codas - identifying patterns to incorporate into the course work Developing myself as a project manager and producer

How the analysis shaped the project

- The words of the scholars are as important as the exercises themselves
- * The thillanas helped me understand how Indian rhythmic concepts were approached
- Every exercise suggested have been analyzed and relevant ones included within the proposed coursework
- The course is not meant to survive the ship of theseus, that is, it is not a study of Indian rhythms, but just an extrapolation of Indian concepts modified for western musicians
- Every effort has been made to incorporate the good aspects of previous works

How the analysis shaped the project

Every exercise in the course needs to have executed examples alongside
Each exercise will be provided in mathematical format, western notation and some applicational ideas. It will be insisted on that the written document purpose is posterity.

 The classes within the course will include actual playing of exercises on instruments

Course design

- * The course design takes into account analysis plus trial execution of the project
- It is designed in 15 phases to develop a strong rhythmic foundation
- Audio/video examples for every exercise plus in class and homework activities designed for each stage

- 5 Tha dhi gi na thom
- 6 Tha dhi . gi na thom
- 7 Tha . dhi . Gi na thom
- 9 Tha . dhi . gi . na. thom

As you will notice, from 5 onwards, the syllables are the same, it is only the spacing (gap inbetween) syllables that chances.

A standard method of counting gap between notes is to enunciate the gap, to increase convenience of recitation. A gap of a beat + 2 counts is denoted as **Thangu** (3 counts total). A gap of a beat + 1 count (2 counts total) is denoted as **tham**.

Endings for one avarthana of a Adi Tala (with just a few additional possibilities) 1, 2, 3, 4, 5

```
6 - 2+2+2
7 - 1+2+1+2+1
8 - 2+1+2+1+2
9 - 3+3+3
10 - 2+2+2+2+2
11 - 3+1+3+1+3
12 - 2+3+2+3+2
13 - 3+2+3+2+3
14 - 4+1+4+1+4
15 - 5+5+5
16 - 4+2+4+2+4
17 - 5 + 1 + 5 + 1 + 5
18 - 6+6+6
19 - 5+2+5+2+5
20 - 6+1+6+1+6
21 - 7 + 7 + 7 = 5 + 3 + 5 + 3 + 5
22 - 6+2+6+2+6
23 - 7 + 1 + 7 + 1 + 7 = 5 + 4 + 5 + 4 + 5
24 - 6+3+6+3+6
25 - 7+2+7+2+7
26 - 8 + 1 + 8 + 1 + 8 = 6 + 4 + 6 + 4 + 6
27 - 9 + 9 + 9 = 7 + 3 + 7 + 3 + 7
28 - 8+2+8+2+8
29 = 9+1+9+1+9 = 7+4+7+4+7
30 = 10+10+10=8+3+8+3+8=6+6+6+6+6=4+6+4+6+4+6
31= 7+5+7+5+7 = 9+2+9+2+9
32 = 8 + 4 + 8 + 4 + 8 = 10 + 1 + 10 + 1 + 10
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Strong sense of internal rhythm

Compositional inspiration

Improvization ideas

Accompaniment ideas

What will you gain?

A new perspective of rhythm and mathematics

Indian rhythmic Excercises for Melody - Set 1

MT Aditya Srinivasan

Traditional Excercises

64=4+**1**+#1+8 #+**1**+*1*+#1+8 #+**1**+*2*+#1+8 #+**1**+*3*+#1+8 #+**1**+*4*+#1+8 #

Sample B - Expanding inner region - 10 = 4+6 ;

11=5+6;12=6+6;13=7+6;14=8+6 Further split - 4=1+3;5=2+3;6=3+3;7=4+3;8=5+3

64 = 4 + (4+6) + (5+6) + (6+6) + (7+6) + (8+6)

64 = 4 + (1+3+6) + (2+3+6) + (3+3+6) + (4+3+6) + (5+3+6)

Working in silence would mean calling the first hit of every part.

Trial execution

Background track : Thillana in Lydian

Uniqueness of the project

- Brings together the work of many scholars and gives notational examples of not just the exercises but also the application of concepts
- Designed as a course work rather than book, with universities of music being specific targets
- Designed exclusively for Non Indian musicians
- It has been designed by one who was experienced the best of both worlds great Indian masters as well as the best of contemporary music at Berklee
- It is not a study in Indian music, it is a study in the relevance of Indian rhythmic concepts to the world wide spectrum of music

The fellowship and future scope of the project

- * As part of my fellowship I will concentrate on 2 different aspects of the course
- The 1st is the designing of the advance material for the next semester of coursework and the second is notating poetical aspects of Indian rhythm toward the development of a percussion ensemble
- This project is a calling card for me to conduct workshops and teach at music universities. I hope to teach this course as part of the fellowship at Berklee.
- * Notation ! Notation ! Notation ! The application of this project in computation

