

Dishant Mayurbhai Pancholi has submitted an application for individual support.

Application data

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Last name: Pancholi

First name: Dishant Mayurbhai

Year of birth: 1976

Department: Mathematics

Institution: Chennai Matheamtical Institute,

H1 Sipcot It Park,

Siruseri,

Kelambakkam,

Tamilnadu, India

PIN: 603103

Mail: [dishant@cmi.ac.in](mailto:dishant@cmi.ac.in)

Phone: +918056250426

Fax: Country: India

State: Tamilnadu

City: Chennai

Postal code: 603103

Full mailing address:

Dishant M Pancholi,

Chennai Matheamtical Institute

H1 Sipcot IT Park, Siruseri,

Kelambakkam, TN

India 603103

Research data:

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Name of institution:

Stanford University

Research period: 2015-05-10 - 2015-06-03

Address of institution:

Department of Mathematics,

Building 380

Stanford, California

Amount of requested support: 1200

Letter of request:

I have been invited by Prof. Yakov Eliashberg to visit him for one month during the month of May 2015 for research collaboration (topic of which is described below). Stanford university is providing complete local support. I request you to provide support for a travel for the same.

Research program:

I work in the field of contact and symplectic geometry. My work is mainly focused on describing manifolds that admit such structure. I with my collaborators gave a complete answer

to the question when the manifolds under consideration have dimension  $5n$ . Recently, Prof. Eliashberg with his collaborator provided a complete answer.

I with Prof Eliashberg intend to investigate conditions under which a manifold admit a symplectic structure. More specifically, it is a (folklore) conjecture in symplectic topology that an almost symplectic manifold admits a (finite) brach cover which is symplectic. I would like to discuss various questions related to this conjuncture with Prof. Eliashberg.

Knowledge of IMU/program

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Received IMU Support:

Knowledge of program:

Prof. Kesavan of IMsc informed me about this when I was trying to find out from people for a possible travel supportfor a short academic visit to USA.

CV: [http://www.mathunion.org/fileadmin/CDC/cdc-uploads/CVgrantsIndividual/77-Dishant\\_CV\\_2015.pdf](http://www.mathunion.org/fileadmin/CDC/cdc-uploads/CVgrantsIndividual/77-Dishant_CV_2015.pdf)

# Dishant M Pancholi

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CONTACT INFORMATION	Chennai Mathematical Institute H1 SIPCOT IT Park, Siruseri Kelambakkam 603103 India	<i>Phone:</i> +91 44 67 48 09 59 <i>Fax:</i> +91 44 27 47 02 25 <i>E-mail:</i> dishant@cmi.ac.in
DATE OF BIRTH	• 2nd March 1976	
RESEARCH INTERESTS	• Contact and symplectic topology	
EMPLOYMENT	<b>Associate Professor</b>	July 2014 – present <i>Chennai Mathematical Institute, Kelambakkam, India</i>
	<b>Assistant Professor</b>	June 2011 - June 2014 <i>Chennai Mathematical Institute, Kelambakkam, India</i>
	<b>Post doctoral Fellow</b>	(January 2008 - January 2010) <i>International Centre for Theoretical physics, Trieste, Italy.</i>
	<b>Visiting Fellow,</b> <i>TIFR Centre, Bangalore, India.</i>	(October 2006 - December 2007)
EDUCATION	<b>School of Mathematics, Tata Institute of Fundamental Research, Mumbai, India.</b> Ph.D, August 1999 - September 2006. Thesis title: Knots, mapping class groups and Kirby calculus.	
	<b>Department of Mathematics, M.S. University of Baroda, Vadodara, India.</b> M.Sc (Mathematics), 1996 - 1998.	
	<b>M.S. University of Baroda, Vadodara, India</b> B.Sc, 1993 - 1996.	
AWARDS AND SCHOLARSHIPS	• Simons Associateships at ICTP, Trieste, Italy. (2013) • Best Thesis award TIFR, Mumbai. (2007) • Research Scholarship at TIFR, Mumbai. (1999) • Shree Ranchodlal Chotalal Shah gold medal for scoring highest marks in mathematics at M S University of Baroda, Vadodara in M.Sc. (1998)	
RESEARCH PUBLICATIONS	• Almost contact 5–folds are contact. <a href="http://annals.math.princeton.edu/articles/9095">http://annals.math.princeton.edu/articles/9095</a> (To appear in Annals of Maths) (2015) (With Roger Casals and Francisco Presas)	

- Homotopical height. arXiv:1302.0607v1 [math.GT] (To appear in International Journal of Mathematics). (2015)  
(With Indranil Biswas and Mahan Mj)
- Contact blow-up *Expositiones Mathematicae* –Original research article (In press) <http://www.sciencedirect.com/science/article/pii/S0723086914000048>.  
( with R.Casals and F. Presas)
- On generalizing Lutz twists. *Journal of the London Mathematical Society* (84) 2011, Issue 3, p670–688.  
( With John Etnyre)
- Non-orientable Thom-Pontryagin construction and Seifert surfaces. *Journal of RMS* 23 (2008), no. 2, 143–149.  
( With Siddhartha Gadgil)
- Homeomorphism and homology of non-orientable surfaces *Proceedings of Indian Acad. of Sciences*, 115 (2005), no. 3, 251–257.  
( With Siddhartha Gadgil)

#### PREPRINTS

- A simple construction of Taut submanifolds (submitted for publication).
- Non-orientable Seifert surfaces, Stabilisation and Knot invariants. *isibc/ms/2005/11* February, 25th 2005 <http://www.isibang.ac.in/statmath/eprints>  
(With Siddhartha Gadgil) [This article has a large overlap with the article “On Signature of a link” by C. Gordon and R. Litherland (*Invent. Math.* (1978) no.1 53-69.)]

#### TALKS AND PRESENTATIONS

- Invited speaker at the RMS annual meeting for the topology symposium. (2012)  
Title: Almost contact 5-folds are contact.
- Invited to speak at ICMAT, Spain in Geometry and topology seminars. (2010)  
Title: On generalizing Lutz twists.
- Invited to speak at Georgia Institute of Technology, Atlanta Georgia in their weekly Topology seminar. (2009)  
Title: Confoliations and contact structures in higher dimensions.
- Seminar talk at ULB, Bruxelles (2009)  
Title: On possible generalizations of Lutz twists in higher dimensions.

#### SCHOOLS/ CONFERENCES/ VISITS

- Annual meeting of RMS (Topology symposium) (October 2012)
- AIM Workshop on Contact topology in high dimension Palo Alto, CA, USA (May 2012)
- ICMAT, Spain ( 1st to 25th February 2011)
- Workshop and conference on geometric methods in low dimensional topology, June 12 -24, 2006, Indian Institute of Science, Bangalore, India
- Workshop and conference on low-dimensional manifolds and groups, Indian Statistical Institute , July 12-24, 2004, Bangalore, India
- International colloquium on algebra, arithmetic and geometry, Tata Institute of Fundamental Research, Mumbai, India.
- Visiting Students Research Programme, Tata Institute of Fundamental Research, Mumbai, India, 1998.
- Mathematics Training & Talent Search Programme (MT&TS), 1997, Indian Institute of Technology, Madras, 1997, Chennai, India.

STANFORD UNIVERSITY  
STANFORD, CALIFORNIA 94305-2125

YAKOV ELIASHBERG  
DEPARTMENT OF MATHEMATICS  
(650) 723-4073  
eliash@math.stanford.edu

January 30, 2015

Dr. Dishant Pancholi  
Chennai Mathematical Institute  
H1, SIPCOT IT Park, Siruseri  
Kelambakkam 603103  
India

Dear Dr. Pancholi

The Department of Mathematics of Stanford University invites you to visit the department for a period of 3-4 weeks in May 2015. The department will cover your local lodging and living expenses. During your visit we expect you to collaborate with our faculty on joint projects and give a talk at our symplectic geometry seminar. Please do not hesitate to contact me at (650) 723-4073 if you have any questions. We are all looking forward working with you at Stanford.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ya. Eliashberg', with a long horizontal flourish extending to the right.

Yakov Eliashberg,  
Herald L and Caroline L. Ritch  
Professor of Mathematics