

# Venkata Raghu Tej Pantangi

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Homepage: <https://venkatapantangi.github.io>

## Personal

Born on April 5, 1990.

Citizen of the Republic of India.

## Education

B.S.-M.S. dual degree , IISER Pune, 2007–2012.

Ph.D. Mathematics, University of Florida, 2013–2019.

## Employment

2019- : Postdoc at Southern University of Science and Technology.

2013-2019: Teaching Assistant at Department of Mathematics, University of Florida.

## Awards/ Prizes

Kishore Vaigyanik Protsahan Yojana (KVPY) fellowship, 2008-2012. Instituted by the Department of Science and Technology, Government of India.

Keene Dissertation Fellowship, Spring 2018. One of 12 dissertation fellowships awarded by the College of Liberal Arts and Sciences (approx. 30 departments) at the University of Florida.

CAM Travel Grant, awarded by the Center for Applied Mathematics at University of Florida.

University of Florida Office of Research Travel Grant.

College of Liberal Arts and Sciences Travel Grant.

## Publications/Preprints

Smith and Critical groups of Polar Graphs, [arxiv.org:1706.08175](https://arxiv.org/abs/1706.08175). (with Peter Sin) Journal of Combinatorial Theory, Series A Volume 167, October 2019, Pages 460-498. <https://arxiv.org/abs/1706.08175>

Critical groups of van Lint-Schrijver Cyclotomic Strongly Regular Graphs, [arxiv.org:1810.01003](https://arxiv.org/abs/1810.01003). Finite Fields and Their Applications Volume 59, September 2019, Pages 32-56. <https://arxiv.org/abs/1810.01003>

Difference families, skew Hadamard matrices, and Critical groups of doubly regular tournaments. [arxiv.org:1905.08568](https://arxiv.org/abs/1905.08568)  
Electronic Journal of Combinatorics 26(3) (2019) #P3.59.  
<https://arxiv.org/abs/1905.08568>

On sums of coefficients of polynomials related to the Borwein conjectures. (with Ankush Goswami)  
To appear in the Ramanujan Journal.  
<https://arxiv.org/abs/2004.08954>

Some formulae for coefficients in restricted  $q$ -products. (with Ankush Goswami)  
 To appear in the Journal of Number theory.  
<https://arxiv.org/abs/2005.01067>

Erdős-Ko-Rado problems for permutation groups. (with Cai Heng Li, and Shu Jiao Song)  
<https://arxiv.org/abs/2006.10339>

## Conferences/Workshops

Advanced Instructional School (AIS) in Mathematics: Lie Algebra, organized by the National Board for Higher Mathematics (NBHM). Held at the Chennai Mathematical Institute, Chennai, during 04 July - 23 July, 2011.

Advanced Training in mathematics Workshop and Conference (ATMWC): Representation Theory of finite groups of Lie Type-Deligne Lusztig Theory, organized by National Board for Higher Mathematics (NBHM). Held at Tata Institute of Fundamental Research (TIFR) during 5 Dec-18 Dec 2011.

Finite Simple Groups: Thirty years of Atlas and beyond. Held at Princeton University, during 2 Nov- 5 Nov 2015.

South Regional Algebra Conference. Held at Univ. Of South Alabama, during 17 March- 19 March 2017.

## Talks at Meetings

“Smith and Critical Groups of some Graphs arising from Rank 3 Permutation Groups ” at South Regional Algebra Conference at Mobile, Alabama, USA, March 2017.

“Smith and Critical groups of Polar Graphs ” at the American Mathematical Society Joint Mathematical Meetings 2018 at San Diego, California, USA, January 2018.

“Smith and Critical groups of Polar Graphs ” at the Zassenhaus Groups and Friends Conference 2018 at Tampa, Florida, USA, April 2018.

## Teaching

I was involved in the instruction of the following courses at University of Florida.

MAC 1140-Precalculus and Algebra. (Instructor.)

MAC 1147-Precalculus and Algebra and Trigonometry. (Discussion Leader.)

MAC 2311-Analytic Geometry and Calculus 1. (Instructor. and Discussion Leader.)

MAC 2312-Analytic Geometry and Calculus 2. (Instructor and Discussion Leader.)

MAC 2313-Analytic Geometry and Calculus 3. (Instructor and Discussion Leader.)

MAS 4105-Linear Algebra 1. (Discussion Leader.)

## Services

Reviewer for University of Florida Journal of Undergraduate Research and Journal of Combinatorial Theory A.

## References

Cai Heng Li  
Chair Professor, Dept. of Mathematics, Southern University of Science and Technology.

Peter Sin.  
Professor, Dept. of Mathematics, University of Florida.

Qing Xiang.  
Chair Professor, Dept. of Mathematics, Southern University of Science and Technology.

Last updated: October 26, 2020