

# Mano Vikash Janardhanan

## Curriculum Vitae

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## Education

- 2014-Present **Ph.D., Department of Mathematics, Statistics, and Computer Science, (in progress), University of Illinois at Chicago,**  
Advisor: Prof. Lev Reyzin.
- 2009-2014 **Integrated MS, Mathematics, Indian Institute of Science Education and Research,**  
Thiruvananthapuram, Kerala.

## Research Interests

My areas of interest include machine learning, data science and algorithms. In particular, I work on problems at the intersection of machine learning and graph theory.

## Experience

### Research

- 2018 May- **Research Intern**, Google Research, New York.
- 2018 August - Advised by Dr. Vitaly Kuznetsov
- 2017 May- **PhD Thesis Research**, University of Illinois at Chicago.  
Present - Working on query models for graph learning.  
- Advised by Prof. Lev Reyzin
- 2017 May- **PhD Thesis Research**, University of Illinois at Chicago.  
Present - Working on developing measures to classify graphs and using these measures to find anomalies in dynamic graphs.  
- Advised by Prof. Bhaskar DasGupta
- 2016 May- **PhD Thesis Research**, University of Illinois at Chicago.
- 2017 August - Worked on a query-model for graph learning and graph verification. [2]  
- Advised by Prof. Lev Reyzin
- 2015 August- **Independent Study**, University of Illinois at Chicago.
- 2016 May - Worked on a passive model for learning graphs using subgraph connectivity constraints. [3]  
- Advised by Prof. Lev Reyzin.
- 2013 August- **MS Thesis Research**, IISER, Thiruvananthapuram.
- 2014 May - *Topics in Ramsey Theory*  
- Used the probabilistic method to find lower bounds for some Ramsey-type functions. [5, 4]  
- Advised by Prof. Sujith Vijay.

### Talks

- 2017 October **Algorithmic Learning Theory**, Kyoto University, Japan.  
Graph Verification using a Betweenness Oracle

2017 **FSTTCS**, Indian Institute of Technology, Kanpur.  
December Network Construction with Connectivity Constraints

### Teaching

- 2014- Present **Teaching Assistant and Lecturer**, University of Illinois at Chicago.
- Led discussion sections for various computer science and mathematics courses. (MCS 401, 275 and MATH 090, 180, 210)
  - SEW Lecturer during summer 2015.

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### Technical Skills

Programming/Scripting Languages: Python, C, C++, Mathematica and MATLAB.  
Other Languages/Frameworks/Tools: HTML and  $\LaTeX$ .

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### Awards and Honours

- 2013 CSIR-NET (national level exam for PhD candidates in India) - 2nd rank
- 2013 Shyama Prasad Mukherjee Fellowship
- 2009 INSPIRE Scholarship for Higher Education

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### References

- [1] Mohsen Aliabadi and Mano Vikash Janardhanan. "On local matching property in groups and vector spaces". In: *Australasian Journal of Combinatorics* 70 (Jan. 2017).
- [2] M. V. Janardhanan. "Graph Verification using a Betweenness Oracle". In: *Algorithmic Learning Theory* (2017).
- [3] M. V. Janardhanan Y. Huang and L. Reyzin. "Network Construction with Connectivity Constraints". In: *FSTTCS* (2017).
- [4] M. Vikash Janardhanan and S. Vijay. "Ramsey Functions for Generalized Progressions". In: *Integers* 15 (2015).
- [5] M. Vikash Janardhanan. "Topics in Ramsey Theory [ArXiv e-prints (1404.7348)]". MA thesis. Indian Institute of Science Education and Research, Thiruvananthapuram, Apr. 2014.