# Praneeth Narayanamurthy

3133 Coover Hall
Dept. Electrical and Computer Engineering
Phone: (515) 735-8303

Iowa State University

Email: pkurpadn@iastate.edu

Ames, IA 50010 Homepage: https://praneethmurthy.github.io

## Education

**B.Tech.**, Electrical and Electronics Engineering, National Institute of Technology Karnataka, 2014. Thesis: *Efficient-Estimation of Lightning Parameters using Genetic Algorithms*.

Ph.D., Electrical Engineering, Iowa State University, 2016 – 2020 (expected).

# Work Experience

Project Assistant: July 2014 - Dec. 2015, Indian Institute of Science, Bangalore.

## **Graduate Courses**

Probability and Random Processes, Linear Algebra, Convex Optimization, Detection and Estimation Theory, Principles of Data Science, Design and Analysis of Algorithms, Deep Machine Learning, Statistical Machine Learning

#### Skills

Proficient: MATLAB, LATEX,

Intermediate: Python, C++, Perl, Bash

Beginner: Julia, Scheme

#### Honors and Awards

Certificate of Excellence from Central Board of Secondary Education for securing 100% grade in Mathematics and Sanskrit in 10th standard – 2008

Indian National Mathematical Olympiad Awardee - 2009

Finalist of National GE Edison Challenge - 2013

#### **Publications and Pre-Prints**

 MEDRoP: Memory-Efficient Dynamic Robust PCA, Praneeth Naryanamurthy and Namrata Vaswani, manuscript.

- 2. Provable Dynamic Robust PCA or Robust Subspace Tracking, **Praneeth Narayanamurthy** and Namrata Vaswani, under review, IEEE Transactions on Information Theory.
- 3. Finite Sample Guarantees for PCA in non-isotropic and Data-Dependent Noise, *Namrata Vaswani and* **Praneeth Narayanamurthy**, extended abstract to appear, Allerton 2017, long version under revision, Annals of Statistics.
- 4. Robust PCA and Robust Subspace Tracking,
  Namrata Vaswani, Thierry Bouwmans, Sajid Javed and Praneeth Narayanamurthy,
  under review, IEEE Signal Processing Magazine.
- 5. Provably correct Robust Subspace Tracking: A Correlated-PCA-based Approach, *Brian Lois, Namrata Vaswani and* **Praneeth Narayanamurthy**, NIPS workshop on LHDS, 2016.
- 6. Efficient Resampling of speech signals in Shift-Invariant Spaces, *Gutta Sreedevi*, **Praneeth Narayanamurthy**, and Chandra Sekhar Seelamantula, NCC 2016.
- 7. Dictionary-Learning based Post-Filter for HMM-based Speech Synthesis, **Praneeth Narayanamurthy** *and Chandra Sekhar Seelamantula*, TENCON 2015.

#### **Talks**

 MEDRoP: Memory Efficient Dynamic Robust PCA
 Microsoft Research India
 ECE Department, Indian Institute of Science, Bangalore
 December 2017

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