

# Sankaran Vaidyanathan

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<https://sankaranv.github.io>

## Research Experience

- **Project Associate** Chennai, India  
*Robert Bosch Centre for Data Science and Artificial Intelligence, IIT Madras* 2017 - present
  - **Project:** Extending Modularity Maximization methods for Clustering on Hypergraphs (advised by Prof. Balaraman Ravindran)
  - **Courses:** Probabilistic Graphical Models, Deep Learning, Linear Algebra and Random Processes
  - **Talks given:** A tour of Spectral Clustering and the Graph Laplacian
  - **Other work:** Set up and managed a Kubernetes-based cluster for the lab (currently 50 GPUs and 70+ users)
- **Research Intern** Chennai, India  
*RISE-IIL Lab, Department of CSE, IIT Madras* 2016
  - Project: End-to-end clustering using deep neural networks (advised by Prof. Balaraman Ravindran)

## Education

- **SSN College of Engineering (Anna University)** Chennai, India  
*B.E, Electrical and Electronics Engineering* 2013 - 2017
  - **Project:** Control of Autonomous Quadrotor for Real-Time Object Tracking
  - **CGPA:** 8.45 (out of 10)
  - **Other activities:** Scriptwriter for Lights Out Please (SSN's theatre group), English Literary Club, SSN Model United Society, Humour Us (stand-up comedy club).

## Publications

Tarun Kumar\*, **Sankaran Vaidyanathan\***, Harini Ananthapadmanabhan, Srinivasan Parthasarathy, Balaraman Ravindran, *A New Measure of Modularity in Hypergraphs: Theoretical Insights and Implications for Effective Clustering*, under review at The Web Conference 2019

## Skills

- **Programming Languages:** Python, C++, (a little bit of) Haskell
- **Libraries:** OpenGL, PyTorch
- **Tools and Platforms:** LaTeX, Linux, Arduino
- **Other:** After Effects, Premiere