

# Koustav Ghosal

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Interests: *Image aesthetics, domain transfer, deep learning.*

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## Research

I am a second year PhD student in Computer Science at Trinity College, Dublin, working with the V-SENSE group in the School of Computer Science and Statistics and supervised by Prof. Aljosa Smolic and co-supervised by Dr. Mukta Prasad. I work in the area of intelligent aesthetic analysis and enhancement of photographic images. We are trying to develop generative models for creative technologies such as aesthetic estimator, photography assistants, feedback systems etc.

Before joining Trinity College, I did my Master's at IIIT Hyderabad under the guidance of Dr. Anoop Namboodiri in sketch-based multimedia retrieval.

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## Publications

1. Koustav Ghosal, Mukta Prasad, Aljosa Smolic, *A Geometry-Sensitive Approach for Photographic Style Classification*, Irish Machine Vision and Image Processing Conference, August 2018 (IMVIP), Belfast.
  2. Koustav Ghosal, Ameya Prabhu, Riddhiman Dasgupta, Anoop M. Namboodiri, *Learning Clustered Sub-spaces for sketch-based Image Retrieval*, Asian Conference on Pattern Recognition, November 2015, Kuala Lumpur, Malaysia.
  3. Koustav Ghosal, Anoop M. Namboodiri, *A Sketch-Based Approach to Video Retrieval using Qualitative Features*, Proceedings of the Ninth Indian Conference on Computer Vision, Graphics and Image Processing, 14-17 Dec 2014, Bangalore, India.
  4. Sanchit Aggarawal, Koustav Ghosal, Pulkit Singhal, Priyanka Srivastava, *Effect of Learning on Audio Spatial Working Memory*, Spatial Cognition 2014, Bremen, Germany, 15-19 September 2014.
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## Teaching (Demonstrator)

1. **Computer Vision**, Trinity College, Dublin. (September - December, 2017)  
Instructor : Prof. Aljosa Smolic
  2. **Statistical Methods in AI**, IIIT Hyderabad. (Monsoon, 2014)  
Instructor : Dr. Anoop Namboodiri
  3. **Cognitive Neuroscience**, IIIT Hyderabad. (Spring 2014)  
Instructors : Dr. Priyanka Srivastava, Dr. Kavita Vemuri, Dr. Bapi Raju
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## Jobs / Internships

### IRISA

VANNES, FRANCE, 2016

I worked as an intern with the OBELIX team at IRISA Labs, Université de Bretagne-Sud, Vannes, France, under Prof. Sébastien Lefèvre, co-supervised by Prof. Anne Puissant and Dr. Bharat Bhushan. We developed segmentation algorithms for multi-spectral data.

### Deep Learn Labs

HYDERABAD, INDIA, 2015

I worked with a team of developers in Traffic Video Analysis. The company works in Machine Learning and Computer Vision using Artificial Neural Networks.

### OMitra : A Social Android App for Train Journeys

HYDERABAD, INDIA, 2014

OMitra is an utility app for train journeys in Indian Railways. It can be used to get automatic location updates and journey information. It can also be used to chat with co-passengers during a journey. I have worked for this company for a period of six months as a developer and consultant. The app is available for download at Google Play Store at this [link](#)

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## **Skills**

**C, C++, Java, Android, Python, OpenCv, PyTorch, Caffe.**

*Last updated on : August 10<sup>th</sup>, 2018.*