# Sagar Joglekar

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**OBJECTIVE**

Contribute in research and development efforts in problem spaces of my interest and expertise, and contribute to innovations of tomorrow

**EDUCATION**

- **Ph.D, Computer Science**
  King's College, London, UK, expected 2018
- **Master of Science, Electrical and Computer Engineering**
  University of California, Santa Barbara , CA , USA, February 2012
- **Bachelor of Engineering, Electronics Engineering**
  University of Pune, India, May 2008

**EXPERIENCE**

***Senior Software Engineer, Citrix Systems*** 02/2015 – 09/2015

My job at Citrix dealt with design and implementation of proprietary communications stack and platform libraries for Android, iOS and the web. As a team we work on implementing Citrix's client side network communications platform code. Some of the salient projects I have contributed to are as follows:

- Develop platform communications stack for iOS that presents an API for products to exercise and communicate with Citrix infrastructure. The platform is currently used in Citrix SaaS products like Convoi, Talkboard and GotoAssist, for audio and screen sharing media communications.
- As a part of Citrix hack-week 2013, I along with two other hackers came up with an idea to hack GotoAssist mobile endpoints and add camera stream sharing and annotations with Audio communication. This morphed the existing GoToAssist product into a tool to support real world use cases. The feature has now been incorporated and marketed as GotoSeeit
- I was a major contributor in design and development of a platform API for our newly launched GotoMeeting web client. I designed and implemented a whole new protocol for efficient screen sharing on HTML5 and mobile.

***Summer Intern, Citrix Systems*** 06/2011 – 12/2011

My internship dealt with porting and modification of proprietary runtime communication libraries and automated testing frameworks for Android.

***Systems And Bio Imaging Lab, UCSB*** 01/2011 – 06/2011

As a Graduate student researcher, I worked on research and development of a system to incorporate HDR imaging in biological fluorescent microscopy. This project was part of my research at Systems and Bio-Imaging Lab at UCSB. The main aim of this project is to enable High Dynamic Range microscopy for dynamic samples.

***Research Engineer, Infosys Research Labs, India*** 07/2008 – 07/2010

My job dealt with research and development of algorithmic solutions, exploring possibilities and conducting research in Digital Convergence. One of my major responsibilities was research, design and development of some intellectual properties and solutions that involve Computer vision based algorithms

**PATENTS**

- Method and system for performing transcoding resistant watermarking , U.S.A Patent : 8,885,871
- System and method for tracking a person in a pre-defined area , U.S.A. Patent Pending: 20110317010

**PUBLICATIONS**

- *An Innovative System for Remote and Automated Testing of Mobile Phone Applications* published at *IEEE /SRII Global Conference (SRII), 2012 Annual*
- *Robust transcoding resistant watermarking for H.264 standard* published in *Journal for Multimedia Tools and Applications 2012 issue*
- *A Novel Way of Tracking People in an Indoor Area* published in *Advanced Computing, Networking and Security Lecture Notes in Computer Science, 2012, Volume 7135/2012, 85-94*
- *Transcoding resistant robust watermarking technique using entropy-based selective spread spectrum* published in *International Journal of Multimedia Intelligence and Security 2010 - Vol. 1*

**TEACHING EXPERIENCE**

- **Teaching assistant Physics (Jan 2011-June 2011):** I assisted in teaching and discussion of Astronomy 1 course offered by the Physics department.
- **Visiting Guide and Mentor (Dec 2009-March 2010):** I mentored a group of 20 students for Robotics Forum (VIT) sponsored project to develop a hardware development platform for computer vision based robotics.
- **Lecture series (12 hrs.) on Computer vision using MATLAB and OpenCV (2008,2009):** Lecture series conducted for Robotics forum and for third year Engineering students in VIT for introduction to Image processing and use of *MATLAB* for computer vision/Image processing.
- **GMRT, Functioning and Signals processing involved (2008):** Seminar covered a comprehensive explanation of Radio telescopes and the Signals processing involve