

Debmalya Sinha

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INTERESTS

Light Fields
Computer Vision
Machine Learning
Affective Computing
Physically Based Rendering

EDUCATION

Doctor of Philosophy

Engineering | Grad. 2018
Conc. on Computer Graphics.
Thesis: Temporal Incident Light Fields

UNIVERSITY OF WARWICK
Coventry, United Kingdom.

Master of Science

Computer Science | Grad. 2013
Conc. on HCI, Usability.
Thesis: Development of Sahaj Linux for rural Indian users

INDIAN INSTITUTE OF
TECHNOLOGY KHARAGPUR
Kharagpur, India.

SKILLS

PROGRAMMING

10000+ lines:

C++ • C • GTK+2

5000+ lines:

C# • Matlab • Python • OpenGL •
OpenCV • CSS • JavaScript

Good Familiarity:

Java • PHP • Perl • Shell • OpenCL •
CUDA • SDL • numPy • Tensorflow

ART

Classical Vocalist
Documentary Photographer
Guitar and Piano player

LINKS

Github:// [ecntrk](#)
LinkedIn:// [ecntrk](#)
Quora:// [Debmalya-Sinha](#)
Slideshare:// [debmalyasinha](#)
DBLP:// [Sinha:Debmalya](#)

EXPERIENCE

trueDR Ltd. | SENIOR ENGINEER

Dec 2017 - Present | Leamington Spa, UK.
HDR image processing for Computer Vision in safety critical automotive applications. **Exp:** OpenCV, OpenGL, GPGPU (OpenCL), various tone mapping, stereo matching, image processing and feature detection techniques.

Sensomatics | FULL-STACK DEVELOPER

Jun 2017 - Nov 2017 | Leamington Spa, UK.
Front and back-end development and maintenance of EU funded project ERC Disconex. **Exp:** C#, HTML, CSS, Javascript, SQL and related technologies.

Felicitous Computing Group | RESEARCH SCIENTIST

Feb 2013 - Feb 2014 | Department of CS, NUS Singapore
Emotion detection from gesture and gait in a continuous 2D emotion space. Invited talks at universities (NTU, NUS, IIT) and at Microsoft Research Asia, Beijing. **Exp:** Affective computing, Kinect, OpenCV, and Machine Learning algorithms.

SNLTR | SENIOR PROJECT OFFICER

Society for Natural Language Technology Research
August 2009 – December 2012 | IIT Kharagpur, India
User interface development for rural Indian users. **Exp:** HCI, Usability, GTK+2, OpenGL, Linux systems programming, UI development.

RESEARCH

Visualisation Group | GRADUATE STUDENT

April 2014 – Present | University of Warwick, U.K
Development of a Light Field based technique for capturing and rendering both spatially and temporally varying light from real-world scenes with photorealistic precision and scalability. Publication submitted.
Supervisors: **Dr. Kurt Debattista** and **Prof. Alan Chalmers**

Media Lab Asia | RESEARCH FELLOW

Jan 2010 – Jan 2013 | IIT Kharagpur
Development of a Linux desktop user interface in Bangla including a novel file browser for socio-economically backward people from rural India with no prior technical exposure. Supervisor: **Prof. Anupam Basu**

PUBLICATIONS

- Natural arrangement: A novel and intuitive perspective on filesystem re-organization. Sinha, D, Basu, A, IHCI 2012
- Gardener: A file browser assistant to help users maintaining semantic folder hierarchy. Sinha, D, Basu, A, IHCI 2012
- Design and Evaluation of a Cognition Aware File Browser for Users in Rural India. Sinha, D, Basu, A, PerMin 2012

AWARDS

- 2014 Queen's Awards and Bursary Scholarship, U.K.
- 2012 Runner's up at Hack-test at NUS Singapore (Shengdong Zhao).
- 2009 Top 1% in Graduate Aptitude Test in Engineering, India