Debmalya Sinha

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EDUCATION

UNIVERSITY OF WARWICK
Coventry, United Kingdom.
PH.D, COMPUTER GRAPHICS
Expected Dec 2017

M.PHIL, ENGINEERING
Grad. 2015
Conc. in Computer Graphics

IIT KHARAGPUR
Indian Institute of Technology
Kharagpur, India.
MS, COMPUTER SCIENCE
Conc. Human Computer
Interaction (HCI)
Grad. July 2013 | GPA: 8.47

INTERESTS

Physically Based Rendering
Affective Computing
Computer Vision
Machine Learning
Human Computer Interaction
Open Source Software

SKILLS

PROGRAMMING
10000+ lines:
C++ • C • JavaScript & HTML •
GTK+2
5000+ lines:
Python • PHP • CSS • C# • LaTeX
Good Familiarity:
Matlab • Perl • Shell • OpenCV

ART
Classical Vocalist
Documentary Photographer
Guitar and Piano player

LINKS

Github:// **ecntrk**
LinkedIn:// **ecntrk**
Quora:// **Debmalya-Sinha**
Slideshare:// **debmalyasinha**
DBLP:// **Sinha:Debmalya**

RESEARCH

VISUALISATION GROUP | GRADUATE RESEARCHER
April 2014 – Present | University of Warwick, U.K
This body of work is developing a **Light Field** based rendering technique which can capture, store and render both spatially and temporally varying light from real-world scenes with photorealistic precision and scalability. Publications submitted.
Supervisors: **Dr. Kurt Debattista** and **Prof Alan Chalmers**

FELICITOUS COMPUTING GROUP | RESEARCH SCIENTIST
Feb 2013 – Feb 2014 | NUS Singapore
Development of an Artificial Neural Network based **Emotion Recognition** software from body movement via a Kinect sensor. The emotion is detected in two dimensions of Valence and Arousal and thus can be represented continuously in a 2D emotion space, rather than only recognising a constrained set of discreet emotions.
Supervisor: **Prof. David Rosenblum**

MEDIA LAB ASIA | RESEARCH FELLOW
Jan 2010 – Jan 2013 | IIT Kharagpur
Design and developing a Linux Desktop user interface for socio-economically backward people from rural India with no prior technical exposure. Entire interface including the softwares were in local language(Bengali). It includes localized softwares and a novel and intuitive file browser. Also, an automatic file arranging software *Gardener* was developed which can categorize and store files into intuitive, hierarchical directories by the filenames with help of any given Ontology.
3 Publications: C1, C2, C3 at DBLP.
Supervisor: **Prof. Anupam Basu**

EXPERIENCE

NUS SINGAPORE | RESEARCH SCIENTIST + LEAD DEVELOPER
Feb 2013 - Feb 2014 | Department of CS, NUS Singapore
- In depth background in Affective Computing and continuous Emotion space.
- Experience in Machine Learning and ANN implementations.
- Extensive experience in C#, C++ and Python.
- Invited talks in universities including at Microsoft Research Asia, Beijing.

SNLTR | SENIOR PROJECT OFFICER
Society for Natural Language Technology Research
August 2009 – December 2012 | IIT Kharagpur, India
- Rigorous usability study on field at the remote rural areas in India.
- Extensive experience in Human Computer Interaction, Usability, User Interface (UI) programming using C and GTK+2 libraries including exposure to Python, Perl and Javascript.

AWARDS

2014	Queen's Awards and Bursary Scholarship, U.K.
2012	Runner's up at Hack-test for Internship at NUS Singapore (Shen Zhao).
2011	Finalist (5th of 72) at Yahoo HackU 24 hour hackathon.
2009	Top 1% in Graduate Aptitude Test in Engineering, India
2008	Fedora Ambassador (Joerg Simon) and Contributor at Fedora 9(DgpLUG).