

Dr. Aravind Vijayaraghavan

School of Computer Science, The University of Manchester

Office: Room IT113, Kilburn Building, Oxford Road, Manchester M13 9PL

Phone: + 44 161 275 0136; **Fax:** +44 161 275 4527; **email :** aravind@cs.man.ac.uk

Mobile: +44 740 229 2755; **Web:** <http://aravind.weebly.com>

Education & Qualifications

2000 – 2002 **Master of Engineering**, Materials Science and Engineering

2002 – 2005 **Doctor of Philosophy**, Materials Science and Engineering

Rensselaer Polytechnic Institute, Troy, NY, USA

Thesis: Effect of Static and Dynamic Charges on the Electronic Transport Properties of Single Wall Carbon Nanotube Transistors and Interconnects (**Advisor:** Prof. Pulickel M. Ajayan)

1996 – 2000 **Bachelor of Technology**, Metallurgical Engineering

Indian Institute of Technology - Madras, Chennai, India

Project: Functionally Graded Bioceramic Material

Professional experience

Sept 2010 **University of Manchester**, School of Computer Science, UK
Lecturer

Nov 2009 **Massachusetts Institute of Technology**, Department of Chemical Engineering, USA
Senior Post-doctoral Associate

Jan 2006 **Karlsruhe Institute of Technology**, Institute of Nanotechnology, Germany
Alexander-von-Humboldt Research Fellow (2006 –2007)
Guest Scientist (2007 – 2009)

Jul 2004 **NTT Basic Research Laboratories**, Materials Science Laboratory, Japan
Internship/Trainee (July – Dec 2004)

Aug 2000 **Rensselaer Polytechnic Institute**, Dept. of Materials Science and Engineering, USA
Graduate Research Associate (2001 – 2005)
Graduate Teaching Assistant (2000 – 2001)

Research Interests

29 publications in international, peer-reviewed journals (Refer attached list)

Directed assembly of carbon nanotube, graphene and other low-dimensional materials

Electronic and optoelectronic devices of pristine and functionalized nano-carbons

Applications of nano-carbon devices in sensors and MEMS

Scanning Probe and Scanning Electron Microscopy of nano-scale systems

Magnetic properties of nanoscale systems

Awards

2006 Alexander von Humboldt Research Fellowship

2000 Indian Academy of Engineers' Innovation Potential of Students Projects Award

Memberships in professional bodies

Institute of Physics (IoP)

British Carbon Society (BCS)

Materials Research Society (MRS)

Institute of Electrical and Electronics Engineers (IEEE)