Arvind Ravichandran

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EDUCATION

Captain of Tennis Team (St. Joseph's Institution)

EDUCATION	
PhD candidate in Physics (Forschungzentrum Jülich, Germany)	2014-current
Mentored by Prof. Dr. Gerhard Gompper	
Research: Computational modeling of kinesin motors and cytoskeletal networks	2012 2011
Masters in Chemical Biomolecular Engineering (University of Pennsylvania)	2012-2014
Final GPA: 3.60Under research fellowship	
 Under research fellowship Research: Numerical and analytical simulation of particle interactions on interface 	ICAS
B.S in Chemical Biomolecular Engineering (Johns Hopkins University)	2009-2012
o Final GPA: 3.63	2000 2012
 Attained Dean's List in 5 semesters 	
GCE A' Level, (Raffles Junior College, Singapore)	2007-2008
 Chemistry, Biology, Mathematics, English, Economics 	
 'A' grades in all subjects 	
GCE O' Level (St. Joseph's Institution, Singapore)	2003-2006
 'A' grades in all 10 subjects 	
SKILLS	
Development: C++ (MPI, OpenACC, Boost libraries), C, Python (cython, numpy, matplotlib, mult Matlab, Haskell, Git, Bash, Shell	iprocessing, nd5py),
Design: Adobe Illustrator, Adobe InDesign, Adobe Photoshop, Adobe Muse	
Skills: Molecular Dynamics, Monte Carlo, PCA, Statistical Mechanics, Computational Geometry,	Fluid Dynamics
Languages: Fluent in English, Tamil and Hindi. Basic Spanish	
AWARDS	
Soft Matter Poster Prize (Soft Matter Journal)	2015
Otto-Bayer Fellowship (Bayer Science and Education Foundation)	2014-2015
Loy Wilkinson Award (Johns Hopkins University)	2012
 Demonstrating record of academic excellence and leadership 	
Vredenburg Scholarship (Johns Hopkins University)	2011
 Funded my research at Julius-Kühn Institut, Braunschweig, Germany 	
SINDA Award for excellence in GCE A'Level	2009
Academic Excellence Award (Raffles Junior College) Top Indian Pupil Award for GCE O'Level in Singapore	2008
	2008
RESEARCH EXPERIENCE	
Research Assistant (Johns Hopkins Medical Institute)	2010-2013
o Drug delivery: Chemotherapeutic nanoparticles for small-cell lung cancer.	2044 (Index Assessed)
Research Assistant (Julius-Kühn Institut, Braunschweig, Germany)	2011 (July – August)
 Vredenburg Scholarship (JHU) - Mapped Ethiopian Pepper Mottle Virus Genome Summer Student (University of Cambridge, UK) 	2009 (June)
Reach Cambridge – Biotechnology summer course	2003 (Julie)
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TEACHING EXPERIENCE	
Teaching Assistant	
Numerical Methods – ENM 502 (UPenn) Product (Process Position - CRE 500 (UPenn))	2014 (Spring)
O Product/Process Design – CBE 500 (UPenn) O Chamical and Biological Process Analysis – CHEMPE 202 (UHLI)	2014 (Spring)
 Chemical and Biological Process Analysis – CHEMBE 202 (JHU) Modeling and Statistical Analysis – CHEMBE 305 (JHU) 	2013 (Spring) 2011 (Fall)
	2011 (Fall)
PROFESSIONAL AND LEADERSHIP EXPERIENCE Client Reconnaissance (AquaAudit, Singapore)	2011 (June)
 Worked with Australian, sewage aeration equipment firm, AquaAudit to arrange 	ZOTT (Julie)
partnership with Public Utilities Board (Singapore)	
Johns Hopkins Math Tournament	2012
Organizing committee for JHMT, for high school students from around America	-
Things You Can Do (Raffles Junior College, Singapore)	2008
 Organizing committee for spreading environmental awareness to high school students. 	ents.
Cantain of Tennis Team (St. Joseph's Institution)	2003-2006

2003-2006