

AADITHYA KANNAN

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Education Year	Degree	Institute / School	CGPA / %
2011-present	B. Tech(Hons) in Chemical engineering	IIT Kharagpur	9.44 / 10 Department Rank 1
2011	Central Board of Secondary Education Class 12	National Public School, Chennai	94.2%
2009	Central Board of Secondary Education Class 10	National Public School, Chennai	93.6%

ACADEMIC ACHIEVEMENTS

- Interned at the **University of Southern California** under the **SN Bose Scholars** Program funded by the Indo-US Science & Technology Forum
- **Department rank - 1** among **84** people in chemical engineering department after six semesters and was awarded the Prof. SK Nandi Memorial Prize and the Prof. JC Ghosh memorial prize for the same
- Got Semester Grade Point Average of **10/10** and **9.90/10** in the sixth and the third semester (**Highest and second highest in a batch of 1341** students respectively)
- Was offered the **DAAD WISE** Fellowship (**Germany**), the **MITACS Globalink** Research Fellowship (**Canada**) and the **SN Bose** Scholarship in which 43 students were selected across different departments in various Indian institutions for a summer research internship in the US
- Won the **First prize** in **ChemSoft** (chemical engineering themed programming competition) in **ChemInsight-2012**, the Departmental Symposium of Chemical Engineering department
- Cleared AMTI (state level), RMO (zonal level) and INMO-2011 (national level) rounds of **National Mathematics Olympiad**
- Got a **State Rank of 3** in National Science Olympiad in 2011
- Was recognized as the '**Most Innovative Programmer**' in a school project submitted to Tata Consultancy Services in 2011
- Won the **First Prize** in **Online IQ contest** conducted by **The Hindu** Newspaper-In-Education in 2009

RESEARCH PROJECTS

- Synthesizing 2D nanosheets based on boron honeycomb lattice isostructural to graphene sheets by ultrasonication assisted exfoliation (manuscript selected for peer review in *Nature Scientific Reports*)
Guide: Prof. Kabeer Jasuja, Chemical Engineering Department under IIT Gandhinagar Summer Research Internship Programme (May 2013-July 2013)
- Hydrodynamic Dispersion in Patterned Microchannel (Conference poster accepted in the International Conference *Microfluidics and Lab on a Chip India* and to be submitted to *Chemical Engineering Science*)
Guide: Prof. Sunando DasGupta, Dean, Sponsored Research and Industrial Consultancy, IIT Kharagpur (March 2014-October 2014)
- Using energy minimization principle for generation of flow pattern maps for multiphase flow through narrow conduits (Manuscript to be submitted to *Physics of Fluids*)
Guides: Prof. Gargi Das and Prof. Subhabrata Ray, Chemical Engineering Department, IIT Kharagpur (November 2013- present)

- Fabrication of a microfluidic vesicle swelling device and study of shear on vesicles (Presented a post-internship poster and will be giving an oral presentation in *Bose and Khorana Research Symposium*)
Guide: Prof. Noah Malmstadt, Mork Family Department of Chemical Engineering, Viterbi School of Engineering, University of Southern California (May 2014- July 2014)
- Study on the dynamics of droplets under an electric field in the presence of nanoparticles
Guide: Prof. Sunando DasGupta, Dean, Sponsored Research and Industrial Consultancy, IIT Kharagpur (October 2014-present)

TECHNICAL SKILLS

- **Programming Languages** : MATLAB, C, C++, Latex
- **Simulation/Analysis software** : COMSOL Multiphysics, FLUENT, ASPEN
- **Packages** : SolidWorks, EndNote, Creo Pro Engineer
- **Experimental Background** : Confocal Microscope, Scanning Electron Microscope, X-ray Diffraction instrument, Ultrasonicator, Freezing Point Osmometer, MakerBot 3D Printer, Ellipsometer, Interferometer

ONLINE COURSES COMPLETED

- Solar Cells, Fuel Cells & Batteries(Dr. Bruce M. Clemens), **Stanford University**
- Nanotechnology: The Basics(Dr. Vicki Colvin), **Rice University**- With Distinction
- Statistical Molecular Thermodynamics(Dr. Christopher Cramer), **University of Minnesota**-With Distinction
- Everything is the Same: Modeling Engineered Systems(Dr. Todd D. Murphey), **Northwestern University**
- Analytical Chemistry/ Instrumental Analysis(Dr. Vicki Colvin), **Rice University**- With Distinction
- Energy 101(Dr. Sam Shelton), **Georgia Institute of Technology**- With Distinction
- Introduction to Psychology(Dr. Steve Joordens), **University of Toronto**- With distinction
- Introduction to Logic(Dr. Michael Genesereth), **Stanford University**- With Distinction

CO-CURRICULAR AND EXTRA CURRICULAR ACTIVITIES

- **Content writer** for the Public Relations Cell, IIT Kharagpur (2013-2014)
- **Student Mentor**, Student Welfare Group, IIT Kharagpur and **City Representative**, Pune in fresher's counseling; was recognized by the **Dean of Students' affairs** for the same (2013-2014)
- **Content Team Head** of **Youth Energy Commission**, IIT Kharagpur Chapter (2012-2014)
- Solar Group Committee Member, **Energy Technology Vision 2035**, Government of India (2012)
- Summer internship in **technical writing** at Techwikasta and CampusCrunch and writing about travel destinations and planning itineraries at Elan Adventures. Published more than **40 articles** on the internet (2012)