

PRASHANT KUMAR

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EDUCATION

- PhD, Chemical and Biological Engineering Jan 2014 - present
University of Wisconsin-Madison, USA
Advisor: Dr. *Jennifer Reed*
- Master of Science, Fluid Mechanics Sep 2012 –Sep 2013
Ecole Polytechnique, France
- Bachelor of Technology, Chemical Engineering Aug 2007 – May 2011
Indian Institute of Technology, Guwahati, India

WORK EXPERIENCE

Business Analytics Associate, **ZS Associates India Private Limited, India** Sep 2011 –Sep 2012

- Design and territory alignment of the Sales force of companies based on pre-defined business rules
- Personnel placement of the Sales Representatives and designing their call plan
- Worked for top pharmaceutical companies around the world

Graduate Research Assistant, **Ecole Polytechnique, France** Feb 2013 –Aug 2013
(Advisors: Dr. Mathis Plapp and Dr. Herve Henry)

- Phase Field modelling of mixing in coalescing micro-droplets

Undergraduate Research Assistant, **Ecole Polytechnique, France** May 2011 –Jun 2011
(Advisors: Dr. Mathis Plapp and Dr. Herve Henry)

- Phase Field modelling of Saffman-Taylor instability in a Hele-Shaw cell in the presence of an air bubble

Undergraduate Research Assistant, **IIT Guwahati, India** Jan 2010 –Apr 2011
(Advisor: Dr. Dipankar Bandyopadhyay)

- Stability of thin films composed of leaky insulators: an analytical and computational output to the problem

Internship, **Trier University of Applied Science, Germany** May 2009 –Jul 2009
(Advisor: Dr. Gregor Hoogers)

- Measurement of leakage current in a Fuel cell membrane using different gas diffusion layers

Internship, **Indian Oil Corporation Limited, India** May 2010 –Jul 2010

- Simulating a model design case for the pre-topping column of the Crude-Distillation Unit and validating the model with the test run data from the refinery.

JOURNAL AND CONFERENCE PAPERS

- “*Electric Field Induced Instabilities of Thin Leaky Bilayers: Pathways to Unique Morphologies and Miniaturization*” by Kartik Mondal, Prashant Kumar, Dipankar Bandyopadhyay, Journal of Chemical Physics, 138, 024705 (2013)
- “*Influence of Slippage and Charge Leakage on the Electric Field Induced Patterns in Thin Bilayers*” K.Mondal, S. Sen, P. Kumar, and D. Bandyopadhyay at the PRiME 2012 organized by the Electrochemical Society
- “*Evaluation of electrochemical and mechanical properties of composite bipolar plates for acid and alkaline fuel cells*”, B.K. Kakati, R. R. Dhruw, P. Kumar, D. Sathiyamoorthy and A.Verma at Chemcon 2009, organized by Indian Institute of Chemical Engineers (IChE)
- “*Phase Field modelling of reaction in coalescing micro-droplets*”, Prashant Kumar, Mathis Plapp and Herve Henry, National Phase Field Meeting, Paris, France, 2013

TECHNICAL SKILLS

- Languages: C/C++, Fortran, Matlab, Basic
- Software & Packages: Mathematica, GAMS, Gnuplot, Javelin Territory Designer, Gerris, MS – Excel, MS – Access, SQL, VBA

ACADEMIC HONOURS

- Received the prestigious **Dr. Shankar Dayal Sharma** Gold Medal for being the best student amongst all the graduating students at IIT Guwahati in 2011
- Selected for the Ecole Polytechnique, France graduate fellowship for 2012-13 academic session
- Received the Coal India scholarship for academic excellence at IIT Guwahati from 2007 to 2011
- Amongst the top 30 candidates to represent the Central Board of Secondary Education (CBSE) at the Indian National Mathematics Olympiad (INMO) in 2006
- Won 1st prize in 2009 and 2nd prize in 2010 at Techscribe, a national level paper presentation held at IIT Guwahati

EXTRA – CURRICULAR ACTIVITIES

- Placement secretary of the Department of Chemical Engineering, IIT Guwahati for the session 2010-11
- Served as the Sports secretary of Kapili hostel at IIT Guwahati for the session 2008-09
- Member of the Hostel Affairs Board (HAB) at IIT Guwahati for the session 2008-09
- Organized a robotics competition named Yacht-o-tronix at Techniche 2009, the Annual Techno-management festival of IIT Guwahati
- Organized a vocal singing competition Unplugged at Alcheringa 2009, the Annual cultural festival of IIT Guwahati
- Represented IIT Guwahati in soccer at the Inter IIT Sports Meet in 2008 and 2009
- Member of the Inter College Soccer competition winning team at Spirit 2010 held at Guwahati, India