

1707 Noble Creek Dr. NW,
Atlanta, GA 30327
Email: newwalkargautami@gmail.com

Gautami Newalkar

Phone: (678)557-2053

EDUCATION

PhD in Chemical Engineering August 2010-present
Georgia Institute of Technology, Atlanta, GA
Paper Science and Engineering Fellow

B. Tech. in Pharmaceutical Science and Technology June 2010
Institute of Chemical Technology, Mumbai, India

EXPERIENCE

Georgia Institute of Technology, Atlanta, GA
Graduate Research Assistant August 2010-present

Thesis: Kinetics of High Pressure Biomass Gasification

- To optimize gasifier conditions for syngas production for biomass feed stocks
- Minimizing the tar and hydrocarbon contaminants
- Kinetic study of the gasification reactions

Homi Bhabha Center for Science Education, Mumbai
Undergraduate Research June 2007- Dec 2008

National Initiative for Undergraduate Science Fellowship

Project Title: Study of Alkaline Hydrolysis of Ethyl p-nitrobenzoate in Surfactant Systems using a UV-Vis Spectrophotometer

- Studied the effect of Sodium lauryl sulfate micelles on the solid-liquid reaction
- Kinetic studies to determine the intrinsic rate constant of hydrolysis
- Rate comparison in presence and in absence of the surfactant

Merck India Ltd. (formerly E. Merck Ltd.), Mumbai, India
Internship May 2009-June 2009

- Worked at the Formulation Development and Analytical Development lab
- Carried out analysis of different Merck products
- Exposed to regulatory requirements of Indian Pharmaceutical Market
- Performed Analytical Method Validation

Mehk Chemicals Pvt. Ltd., Mumbai, India

Internship

June 2009

Exposed to Production, Quality Control and Packaging unit in their Solvent Recovery and Purification Facility

SKILLS

- Analytical Techniques: Experience working with GC, MS, HPLC, SEM and EDX.
- Computer Skills: Microsoft Office, MATLAB, R programming

AWARDS AND ACTIVITIES

- Member of Library Graduate Student Advisory Board at Georgia Tech Library, 2011-12
- Media Chair at Chemical Engineering Symposium, Spring 2012
- National Initiative for Undergraduate Science Fellowship, India, 2007-08