

Fan (Andy) Hu

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Education:

- Fall 2009- present: **Georgia Institute of Technology (GIT)**, Atlanta, GA, USA
Doctor of Philosophy candidate in Chemistry Department
(Expected Graduation Date: Fall 2014)
Supervisor: Art Ragauskas
Overall GPA: 3.85/4.00
- Spring 2009- Summer 2009: **Georgia Institute of Technology (GIT)**, Atlanta, GA, USA
Undergraduate Exchange Program with HKUST
- Fall 2005- Fall 2009: **Hong Kong University of Science and Technology (HKUST)**, Hong Kong
Bachelor of Science in Chemistry
First Honor

Research Experience:

- Summer 2010- present: PhD thesis: "Pseudo-lignin Chemistry in Pretreatment of Biomass for Cellulosic Ethanol Production" Atlanta, GA, USA
 - Characterize extracted pseudo-lignin from pretreated poplar holocellulose and cellulose by NMR and FTIR
 - Propose possible pseudo-lignin generation mechanisms and provide pretreatment conditions that reduce lignocellulose recalcitrance while significantly suppressing pseudo-lignin generation;
 - Investigate pseudo-lignin/enzyme interaction that will be significant for enzymatic deconstruction of cellulose and for the determination of pretreatment conditions
- Fall 2009- Summer 2010: Total synthesis and Methodology development, Atlanta, GA, USA
Superviosr: Stefan France

- Spring 2009- Summer 2009: Organic Synthesis and Methodology Development of Diels-Alder Reaction Atlanta, GA, USA
Supervisor: Stefan France
- Summer 2008- Fall 2008: Inorganic Nanomaterial Development and Organic Synthesis Hong Kong
Supervisor: Bing Xu

Experience:

- Spring 2010- Summer 2010: **Georgia Institute of Technology**, Atlanta, GA, USA
Teaching Assistant in Organic Synthesis Laboratory
- Fall 2009- Winter 2009: **Georgia Institute of Technology**, Atlanta, GA, USA
Teaching Assistant in General Chemistry
- Spring 2009- Summer 2009: **Georgia Institute of Technology**, Atlanta, GA, USA
Undergraduate Exchange Program with HKUST

Computer Skills:

- Microsoft Office
- ChemDraw

Languages:

- English
- Mandarin
- Cantonese

Awards/Honors:

- Fall 2009: First Honor of School of Science in HKUST
- Spring 2009: HKTIIT Scholarships
- 2007-2008: Dean's List of HKUST
- 2006-2007: Dean's List of HKUST
- Fall 2005- Fall 2006: School of Science Scholarship
- 2004: Third Place in National Chemistry Competition in Mainland China
- 2004: First place in Zhejiang Chemistry Competition in Mainland China