

Georgia Tech Renewable Bioproducts Institute's Fellowship Program

Currently Enrolled GT Graduate Students Supported by the RBI Fellowship

Last Updated: 2/27/2017

<u>Student</u>	<u>Degree</u>	<u>School</u>	<u>Advisor(s)</u>	<u>Project Title</u>
Column1	Column2	Column3	Column5	Column7
Chiang, Mr. Leo Ya-Dong	PhD	ChBE	Nair/Lively	Advanced Porous Materials and Processes for Biorefinery Separations
Du, Mr. Xiaotang (Tony)	PhD	ChBE	Hsieh	Novel Liquid Phase Plasma Technology for Fatty Acids and Microstickies Removal in Waste Water Treatment and De-inking of Inkjet Printed Paper
Du, Mr. Xu	PhD	CHBE	Deng	Lignin Based Green Polyurethanes from 100% Sustainable Natural Materials
Dutzer, Mr. Michael	PhD	ChBE	Walton	Low-Cost Carbide-Derived Carbons for Absorptive Removal of VOCs from Air Streams
Ellebracht, Mr. Nathan C.	PhD	CHBE	Jones	Nanocellulose-based Biomimetic Chemocatalysts for Conversion of Furan Compounds to Fuels
Essenmacher, Mr. Scott	PhD	ChBE	Behrens/Meredith	Removal of Particulate Contaminants from Process Effluents by "Affinity Flotation"
Jiang, Ms. Lu	PhD	ChBE	Hess/Breedveld	Scalable Technologies to Control Liquid Wetting and Adhesion on Paper Substrates
Kwok, Mr. Thomas Tai-Min	PhD	CHBE	Bommarius/Realff	Process Systems Engineering of Novel Mild Chemical Pretreatment Options of Lignocellulosics
Li, Mr. Vincent Chi-Fung	PhD	ChBE	Deng / Qi	Paper Substrates for Advanced Technologies and Analyses
Liao, Ms. Jianshan	PhD	ChBE	Breedveld, V	Rheological Characterization of Nanocellulose for Metrology and Quality Control Research
Liu, Mr. Wei	PhD	ChBE	Deng	Design of Natural Nanofiber Composites: An Integrated Approach to Control Barrier and Mechanical Properties of Cellulose- and Chitin- Based Nanomaterials
Mulyardi, Mr. Arie	PhD	ChBE	Deng	High-Performance Cellulose Nanofibrils Composites Aimed Light Weight Automotive
Risteen, Ms. Bailey Elizabeth	PhD	CHBE	Reichmanis/Russo	Protein Assisted Functional Active Packaging for Safety and Security: the Interesection of Cellulosics and Fungal Hydrophobins with Semiconducting Polymers
Satam, Mr. Chinmay	PhD	ChBE	Meredith	Design of Natural Nanofiber Composites: An Integrated Approach to Control Barrier and Mechanical Properties of Cellulose- and Chitin- Based Nanomaterials
So, Mr. Jungseob	PhD	ChBE	Sievers/Sholl	Production of Lactic Acid from Monosaccharides over Solid Catalysts
Wang, Mr. Songcheng	PhD	ChBE	Behrens/Meredith	Encapsulation of the Liquid Paper Sizing Agent ASA
Wiest, Ms. Lisa	PhD	CHBE	Sievers/Liotta	Production of Ethylene Glycol and Lactic Acid from Biomass-Derived Sugars
Zhang, Mr. Zhe	PhD	ChBE	Deng	Novel Fiber and Sheet Composites of Lignin and Cellulose
Kruyer, Mr. Nick	PhD	ChBE, Chem	Peralta-Yahya/ Bommarius/ Realff	Biorefining: Catalytic Processes for the Production of Value-Added Chemicals from Lignin (Production of Adipic Acid from Catechol)
Stellato, Mr. Michael	PhD	ChBE, ISyE	Bommarius/ Sievers/ Thomas	Biorefining: Catalytic Processes for the Production of Value-Added Chemicals from Lignin (Production of Phenol and Catechol from Lignin-Derived Monomers and Dimers)
Tricker, Mr. Andrew	PhD	ChBE, ISyE	Sievers/ Realff/ Thomas	Biorefining: Catalytic Processes for the Production of Value-Added Chemicals from Lignin (Mechanocatalytic Depolymerization of Lignin)
Wang, Mr. Zhongzhan	PhD	ChBE, MSE, RBI	Nair/Shofner/ Sinquefield	Tunable Polymeric Membranes for Energy-Efficient Black Liquor Concentration
Akinosho, Ms. Hannah O.	PhD	Chem	Ragauskas	Enhancing Cellulose Reactivity for Dissolving Grade Pulps via Pulping

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Cannatelli, Mr. Mark	PhD	Chem	Ragauskas	Applications of Laccases in Green Chemistry
Tolbert, Ms. Allison K.	PhD	Chem	Ragauskas	Carbon Fibers from Kraft Black Liquor Lignin
Chilmonczyk, Mr. Mason	PhD	ME	Federov	Multimode Micro/Nanoscale Imaging to Enable Enhanced Pulp Washing
Hume, Mr. Chad Albert	PhD	ME	Rosen	Hole Design and Manufacture for Press Fabric Layers to Improve Dewatering
Le, Mr. Luc Hong	PhD	ME	Jacob/Kalaitzidou	Nanocellulose-Based Bio-nanocomposites
Lee, Mr. Vincent	PhD	ME	Aidun	Analysis of Multiphase Foaming and Flow Characteristics in the Forming Section
Liu, Mr. Yitao	PhD	ME	Jiao	Optimal Resource Balancing and Factory Loading for Energy Cost Reduction in the Pulp and Paper Industry
Oztekin, Mr. Dennis E.	PhD	ME	Aidun	Fiber Orientation in Multiphase Forming Technology
Zhu, Mr. Yuanzheng	PhD	ME	Aidun	Direct Analysis and Tracking of the Crystal Formation in Black Liquor Evaporators
Haque, Mr. Ejaz	PhD	ME	Kalaitzidou/Jacob	Nanocellulose as reinforcement: An approach towards light-weighting of polymer composites
Hamel, Mr. Craig	PhD	ME, ChBE	Qi/Deng	3D Printed High Strength and Lightweight Epoxy/Nanocellulose Composite Products for Automobile and Aerospace Applications
Banerjee, Ms. Manali	PhD	MSE	Brettmann	Customizable cast films containing active pharmaceutical ingredients
Baykal, Mr. Aydin Bedi	PhD	MSE	Singh	Role of Natural Inhibitors and Extractives on Black Liquor Corrosivity
Beatty, Mr. Brian Robert	PhD	MSE	Vogel/Shofner	Assessing the Use of Paper and Cellulosic Materials as Flexible Substrates for 2D Electronic Materials
Chang, Mr. Huibin	PhD	MSE	Kumar	Carbon Fibers from Polyacrylonitrile (PAN) /Cellulose Nano Crystals
Hanson, Mr. Kasey	PhD	MSE	Singh	Corrosion Control in Superheaters to Increase Kraft Recovery Boiler Efficiency
He, Ms. Liang	PhD	MSE	Singh	Corrosion Behavior of New Lean Duplex Stainless Steels in Changing Pulp and Paper Mill Environments
Irvin, Mr. Cameron	PhD	MSE	Shofner	Design of Natural Nanofiber Composites: An Integrated Approach to Control Barrier and Mechanical Properties of Cellulose- and Chitin- Based Nanomaterials
Lang, Mr. Gus	PhD	MSE	Reynolds/Moon	Electrofunctional Paper: Highly Conductive and Switchable Displays
Li, Ms. Yi	PhD	MSE	Losego	New Functionality via Vapor-Phase Surface Modification
Liu, Mr. Hsiang-Hao (Clive)	PhD	MSE	Kumar	Carbon Fibers from Lignin/Carbon Nanotube (CNT) Composites
Luo, Mr. Jeffrey	PhD	MSE	Kumar/ Moon	High Strength and High Modulus Fibers from Cellulose Nanocrystals
Na, Ms. Yoon Joo	PhD	MSE	Muhlstein	Strain Field Mining: The Key to Engineering the Strength and Fracture Toughness of Paper and Packaging Products
Orr, Mr. Matthew P	PhD	MSE	Shofner	Tensegrity -Inspired Microstructures for Cellulose Nanocrystal Composites in Film and Packaging Applications
Qiu, Mr. Ke	PhD	MSE	Jacob/Garmestani	Bio-inspired, Ultra-Strong Biopolymer-Based Nanocomposites
Semenikhin, Mr. Nikolay	PhD	MSE	Sandhage	Rapid, Reliable Optical Analysis of Cellulose Nanocrystal Morphology/Size
Venkatram, Ms. Shruti	PhD	MSE	Kumar	Bi-component, Functional and Eco-friendly Textile Fibers with Synthetic Polymers as the Sheath and Lignin as the Core
Wu, Mr. Gaoxiang (Garrett)	PhD	MSE	Singh	Effect of Strain on Repassivation and Corrosion Behavior of Duplex Stainless Steels in Pulp and Paper Mill Environments
Yu, Ms. Jiwoo	PhD	MSE	Lin	Low-Cost, Large-Scale Manufacturing of Multifunctional Porous Cellulose/Nanoparticle Microspheres for Water Treatment