Fall 2010 President's Undergraduate Research Awards

	Student				Funding
Award School	Name	Student Major	Mentor Name	Paper Title	Туре
		,		·	
College of Architecture					
	Giles,				
College of Architecture	Candace	Architecture	Irizarry,Javier	Analyzing the Existence of Gender Roles in Sustainability Practice	Salary
	Utting,			Ephemeral Cities: Using cellular automata to model growth patterns of virtual	
College of Architecture	Brittany	Architecture	Swarts, Matthew E.	tent cities	Salary
		Industrial and		Life Cycle Cost Analysis and Risk Analysis of Highway Improvement and	
College of Architecture	Zhou, Jingwei	Systems	Ashuri,Baabak	Expansion	Salary
College of Computing					
Conlege of Companing	Narayan,	Computer			
College of Computing	Karthik	Science	Isbell Jr,Charles Lee	Modeling Sub-rational Agents in Multiagent Systems	Salary
conege of computing	Kartiik	Science	isbell st, charles Lee	Modeling Sub Fational Agents in Mattagent Systems	Salary
College of Engineering					
		Mechanical	Lieuwen,Timothy	Effects of Transverse Acoustic Waves on Swirl Stabilized Flames for Gas	
Aerospace Engineering	Lu, Charles	Engineering	Charles	Turbine Applications	Salary
1 0 0	Mandalia,	Aerospace	Lieuwen,Timothy	Measurements of the Local Turbulent Flame Speed in a Low-Swirl Burner	,
Aerospace Engineering	Amit	Engineering	Charles	using High Speed OH PLIF and PIV	Salary
	Mannino,	Aerospace	Lieuwen,Timothy	Heat Release From A Swirl Stabilized Flame During Transverse Acoustic	,
Aerospace Engineering	Jared	Engineering	Charles	Excitation	Salary
	Morgan,	Aerospace	Lieuwen,Timothy	Particle Image Velocimetry of Swirl-Stabilized Combustors in Response to	
Aerospace Engineering	Jonathan	Engineering	Charles	Changes in Geometry and Flow Conditions	Salary
	Raghunath,	Aerospace	Komerath, Narayanan		
Aerospace Engineering	Kishen	Engineering	М	John J. Harper Wind Tunnel at Georgia Tech Performance and Optimization	Salary
	Reyes Castro,	Aerospace		Transfer Functions in the Control of Gyroscopic Forces for the Coordinated	
Aerospace Engineering	Luis Ignacio	Engineering	Tsiotras, Panagiotis	Motion of Networked Vehicles	Salary
		Mechanical	Lieuwen,Timothy	Flame Shape Analysis of Lean, Premixed, Swirl-Stabilized Combustors in	
Aerospace Engineering		Engineering	Charles	Response to Geometric and Operational Changes	Salary
	Ahmad,		Bellamkonda,Ravi	Determining the mechanism of action of a novel drug in RT2, C6, 9L, and	
Biomedical Engineering	Mona	Biology	Venkat	Neurospheres	Salary
	Bracaglia,	Biomedical	Haggerty,Christopher		
Biomedical Engineering	Laura	Engineering	Mark	Fluid Mechanical Analysis of Surgically Reconstructed Aortas	Salary
Diamendical Europeanian	Danasala Katia	Biomedical	Kemp, Melissa	NF-kB Regulation Through Redox Components in Pediatric Acute	Calami
Biomedical Engineering	Brasuk, Katie	Engineering Biomedical	Lambeth	Lymphoblastic Leukemia	Salary
Biomedical Engineering	Britt, Chelsea		Boyan,Barbara D	Determination of Factors Regulated During Craniosynostosis	Salary
Bioinedical Engineering	Britt, Crieisea	Biomedical	buyan,bandara b	Determination of Factors Regulated During Cramosynostosis	Salary
Biomedical Engineering	Bui, Hieu	Engineering	Temenoff Johnna Sue	Mesenchymal stem cell spreading in protease-sensitive hydrogels	Salary
Diomedical Engineering	bui, riieu	Biomedical	Temenon, John a Sue	The Effects of Disease and a Three-Dimensional, Saddle-Shaped Annulus on	Jaiaiy
Biomedical Engineering	Buice, Dana	Engineering	Yoganathan,Ajit	Tricuspid Valve Leaflet Strain	Salary
Diametrical Engineering	Chism,	Biomedical	· · · · · · · · · · · · · · · · · · ·	Investigating the Efficacy of Papillary Muscle Relocation in an In-Vitro Model	- Julius y
Biomedical Engineering	Benjamin	Engineering	Yoganathan,Ajit	of Ischemic Mitral Regurgitation	Salary
	Cuenca,	Biomedical	Oarrastratily the	Non-classical effects of estrogen on the transcription of factors promoting	
Biomedical Engineering	Natalia	Engineering	Boyan,Barbara D	breast cancer invasion to bone	Salary

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B	Damen,	Biomedical		Mapping Anatomical Connectivity of the Cerebral Cortex and Its Applications	6.1
Biomedical Engineering	Frederick	Engineering	Hu,Xiaoping	in Evolution of Aging in Primates	Salary
	Dehitta,	Biomedical	Bellamkonda,Ravi	Assessment of the Effect of Imipramine Blue, a Novel Anti-invasive	
Biomedical Engineering	Eleanor	Engineering	Venkat	Compound, on Vascular Permeability in Glioblastoma	Salary
s		D: 1			6.1
Biomedical Engineering	Gorti, Harika	Biology	Yoganathan,Ajit	Significance of Runx2 pathway in stretch and pressure induced AV calcification	Salary
		Biomedical	Kemp,Melissa		
Biomedical Engineering	Hill, Abby	Engineering	Lambeth	Role of Redox Regulatory Molecules in T Cell Senescence	Salary
	Huber,	Biomedical	Bellamkonda,Ravi	DEVELOPING AND TESTING BIODEGRADABLE SCAFFOLDS TO PROMOTE	
Biomedical Engineering	Richard	Engineering	Venkat	PERIPHERAL NERVE REGENERATION	Salary
				Cross-talk Between Hypoxia Signaling and VitminD3 signaling in Controlling	
Biomedical Engineering	Jiwani, Ibaad	Biology	Wang,Yun	Growth Plate Development	Salary
		Biomedical	Bellamkonda,Ravi		
Biomedical Engineering	Koenig, Seth	Engineering	Venkat	PEGylation of Chondroitinase ABC to increase in vivo Stability and Diffusion	Salary
	Murphy,			Cellular Responses in Neural Degeneration: In vitro Analysis of Potential	
Biomedical Engineering	Patricia	Biology	Karumbaiah,Lohitash	Neuronal Receptors for Chondroitin Sulfate Proteoglycans	Salary
		Biomedical	Bellamkonda,Ravi		
Biomedical Engineering	Patel, Janki	Engineering	Venkat	Developing a More Efficient Drug Delivery System (Lipid Microtubules)	Salary
		Biomedical		A Computational Study of the Role of Wall Shear Stress in Carotid Wall	
Biomedical Engineering	Ries, Jared	Engineering	Oshinski,John	Thickening	Salary
Chemical and Biomolecular					
Engineering	Al-Khalil, Bilal	Mathematics	Bommarius, Andreas S	Co-Evolution of Retinoic Acid Receptor Variants Activated by Ampicillin	Salary
Chemical and Biomolecular	Brown,	Chemical and	,	Computational Screening of Metal-Organic Framework Structures for	
Engineering	Courtney	Biomolecular	Nair,Sankar	Separations Applications	Salary
Chemical and Biomolecular	Clemmons,	Chemical and	, , , , ,		,
Engineering	Crystal	Biomolecular	Behrens,Sven Holger	Nonionic Surfactants for Charge Control in Nonpolar Liquids	Salary
Chemical and Biomolecular	,	Chemical and	Breedveld,Laurens		<i>'</i>
Engineering	Edgar, Steven	Biomolecular	Victor Adriaan	Rheological Properties of Algae Suspensions	Salary
Chemical and Biomolecular	Faltermeier,	Chemical and		or and an approximation of the state of the	,
Engineering	Sean	Biomolecular	Eckert,Charles A	Cost-Effective Carbon Dioxide Capture Using Reversible Ionic Liquids	Salary
Chemical and Biomolecular	Hang,	Nuclear and	zono. cjenance / t	Development of Engineered Mesenchymal Stem Cell Gene Delivery Vectors	Juliu ,
Engineering	Christine	Radiological	Dawson,Michelle R	that Inhibit Tumor Angiogenesis	Salary
Chemical and Biomolecular	Citistine	Chemical and	Dawson, menene it	Optimization of Shape and Size of Platinum Nanoparticles Deposited on	Salary
Engineering	Kim, Jisoo	Biomolecular	Hess,Dennis W	Carbon Nanotubes for Use in Fuel Cells	Salary
Chemical and Biomolecular	Tallarita,	Chemical and	11033,80111113 11	Carbon Handrades for Ose in Faci delis	Jaiary
Engineering	Adam	Biomolecular	Prausnitz,Mark R	Microneedles to Target the Trabecular Meshwork	Salary
Chemical and Biomolecular	Tong, Ho	Chemical and	i rausinitz,iviaik it	Poly(vinyl alcohol)- Aluminosilicate Nanotube Composite Membranes for	Jaiaiy
Engineering	Ming	Biomolecular	Nair,Sankar	Ethanol-Water Separation by Pervaporation	Salary
Chemical and Biomolecular	1*******5	Biomedical	Sambanis, Athanassio	Echanol Water Separation by Lervaporation	Jaiaiy
	Vong Chun		c Authornio, Authorias SIU	In Vitro Culturing of Alginate Microcancules to Assess In Vivo Stability	Salary
Engineering Chemical and Biomolecular	Yong, Chun	Engineering Biomedical	Sambanis, Athanassio	In Vitro Culturing of Alginate Microcapsules to Assess In Vivo Stability Long-Term Quantitative In Vivo Characterization of Alginate Microcapsules in	Jaiai y
	Vong Chun		,	Balb/c Mice	Travel
Engineering Civil and Environmental	Yong, Chun	Engineering Civil and	S	Daily/C IVIICE	Travel
Civil and Environmental	Hotle Coss	Environmental	Carrow Lauria Anna	Consitiuity Analysis of Toronto's Activity Based Madala	Calari
Engineering Electrical and Computer	Hotle, Susan	Electrical and	Garrow,Laurie Anne	Sensitivity Analysis of Toronto's Activity-Based Models	Salary
Electrical and Computer	Massire Tee		Covilored Therenes V	Daviadio Churchuro Fabrication bu Multiple Desar Interference Lither and	Color
Engineering	Messina, Troy	•	Gaylord,Thomas K	Periodic Structure Fabrication by Multiple Beam Interference Lithography	Salary
Matariala Caianas O Sector I	Bhatnagar,	Biomedical	Call Kannath A	Poly(caprolactone)-based Poly(β-amino ester) Networks for Cardiovascular	Calar
Materials Science & Engineering	Shivani	Engineering	Gall,Kenneth A	Therapies	Salary
	Jackman,	Biomedical	Gleason Jr.,Rudolph	The Effect of Biochemical Stimulation on Mechanical Properties of Collagen-	
Mechanical Engineering	Chris	Engineering	Lawson	based Tissue Engineered Blood Vessels	Salary

		Mechanical	Bassiri-		
Mechanical Engineering	Kim, Blair	Engineering	Gharb, Nazanin	Vacuum-Assisted Infiltration of Piezoelectric PZT	Salary
	,	Biomedical	,		,
Mechanical Engineering	Rath, Rutwik	Engineering	Garcia, Andres J	VEGF-stimulated Angiogenic Sprouting in Diabetic and Healthy Rats	Salary
Polymer, Textile, and Fiber	,	Polymer, Textile,	,		<i>'</i>
Engineering	Goss, Emily	and Fiber	Shofner, Meisha Lei	Effects of Processing Conditions on Mixing Time Using a Twin Screw Extruder	Salary
2.18.1120.11.18	Coss, Emmy				Juliu: 7
College of Management					
College of Management	Hill, Keegan	Management	Zhang,Han	Online Uncertainies and Customer Satisfaction	Salary
	White,				
College of Management	Thomas	Management	Zhang,Han	Negative Biases in Online Reviews and the Formation of Online Trust	Salary
College of Science					
	Poole, John	Mechanical			
Biology	(Jack)	Engineering	Yen,Jeannette	Bio Inspired Design: Living Wall Water Filtration System	Salary
	,			,	<i>'</i>
Biology	Small, James	Biology	McDonald,John F	A Novel Method for Finding Genetic Links Between Breast and Ovarian Cancer	Salary
	Tippur,	Biomedical	,	Sup35 prion poisoning as a result of genetic differences in closely related	<i>'</i>
Biology	Ankita	Engineering	Chernoff,Yury O	Saccharomyces yeast strains	Salary
<u>. </u>	Chen,	Chemistry and		Understanding the evolution of the ribosome as a way to validate the RNA	
Chemistry and Biochemistry	Michael	Biochemistry		world hypothesis and the chemical origins of life	Salary
· · · · · · · · · · · · · · · · · · ·	Drescher,	Chemistry and	Oyelere,Adegboyega	71	,
Chemistry and Biochemistry	Stephan	Biochemistry	K	Novel Proteasome Inhibitors for Anti-cancer Therapy	Salary
,	Flanagan,	Chemistry and		.,	<i>'</i>
Chemistry and Biochemistry	Molly	Biochemistry	Kroger, Nils Klaus	Increasing the Efficiency of Diatoms as a Source of Biofuel	Salary
enemous, and broadeningus,	,	Chemistry and	Fernandez,Facundo	Imaging Desorption Electrospray Ionization (DESI) Mass Spectrometry for	<i>'</i>
Chemistry and Biochemistry	Herrel, Kristin	Biochemistry	М	Counterfeit Drug Detection	Salary
	Sarwar,	Chemistry and		High contrast cation-selective fluorescent probes: synthesis of ligand scaffolds	
Chemistry and Biochemistry	Mysha	Biochemistry	Fahrni,Christoph J.	for synergetic conformational and electronic switching	Salary
	Froehlich,	,	, ,		
Physics	Stefan	Physics	Cvitanovic,Predrag	Symmetry reduction of shear turbulent flows in pipe and planes geometries	Salary
	La Forge,	•	Hertzog,Christopher		
Psychology	Stephanie	Psychology	K	Age Differences in Strategy-Based Skill Acquisition	Salary
Georgia Tech Research					
Institute (GTRI)					
	Scarborough,	Chemical and		Measuring Transport of Vanadium Ions in Membranes Used for Redox-Flow	
GTRI	William	Biomolecular	Fuller,Thomas F	Batteries	Salary
	Worthington,	Mechanical			
GTRI	Lisa	Engineering	Ready,William Judson	3D GaAs Photovoltaics	Salary
Ivan Allen College					
	Wharton,			Assessing the Economic Component of Internal Migration and Forced	
Economics	Kate	Economics	Uwaifo,Ruth O	Displacement in Colombia	Salary
		Computational			
Literature,Com & Culture (LCC)	Ead, Samer	Media	Pearce,Celia	Mermaids Research	Salary
	Gergely,	Computational			
Literature,Com & Culture (LCC)	Jennifer	Media	Yaszek,Lisa	Examining the New Space Opera and its evolution over the past twenty years	Salary
		Science,	Reilly,Justine	The Milk of Human Corruptions: Liconsa and the Persistence of Childhood	
Literature,Com & Culture (LCC)	Pettus, Amira	Technology and	Courtney	Malnutrition in Mexico	Salary

	Turner,	Science,			
Literature,Com & Culture (LCC)	Nicole	Technology and	Pollock,Anne	Dynamic Families: Lesbian Kinship in the Social, Cultural, and Legal Context	Salary
			Matisoff, Daniel		
Public Policy	O'Brien, John	Public Policy	Charles	Characterizing Privatization Trends within U.S. State Parks	Salary