

Summer 2007 PURA Awards

Name	Major	Project Title	Mentor Name	Mentor School
Travel Awards				
Martinelli, Scott	AE	Validation Process for Blowing and Transpiration-Cooling in DPLR	Ruffin, Stephen	AE
Palladino, Dianne	PSYCH	Learning Rates for Auditory Menus Enhanced With Spearcons Versus Earcons	Walker, Bruce	PSYCH
Widloski, John	Physics	Resonance Induced Mixing in Microdroplets	Grigoriev, Roman	PHYSICS
Salary Awards				
College of Architecture				
Marks, Derek (declined)	ARCH	A Comparative Study of Sidewalks in Barcelona and Atlanta	Khan, Sabir	COA
Smith, Daniel	BME	Bladder Matrix Bed Position Monitoring System	Sprigle, Stephen	CATEA/COA
Trebb, Jeffrey	CEE	Warmth, body, presence, bite and sizzle: The new pulse and flow of ambient infotecture and musicDSP-based liquitecture	Winegarden, Claudia	COA
Weems, Nathaniel	ARCH	Freeway Overpasses and Bridges: A Comparison Between Barcelona and Atlanta	Kahn, Sabir	COA
College of Computing				
Rutter, David	CS	Minimal Mathematical Models For Human Categorization	Vempala, Santosh	COC
College of Engineering				
Dreas, Christine (declined)	AE	Assembly and Test Preparation for a Laboratory T-140 Hall Thruster	Walker, Mitchell	AE
Richards, Phillip	AE	Turbulent Flame Speed Measurements and Modeling of Syngas Fuels	Seitzman, Jerry	AE
Verges, Amanda	AE	Mars Entry, Descent, and Landing Trajectory Reconstruction and Analysis	Braun, Dr. Robert	AE
Challa, Sriram	BME	Development of a Biochemical Pathway Ontology for Quantitative Modeling	Wang, Dongmei	BME
Chen, Inn-Inn (declined)	BME	Role of Mannose or Galactose Containing Neoglycoproteins in Dendritic Cell Maturation on Biomaterials	Babensee, Julia	BME
Dozic, Sejdefa	BME	Characterization of the Biomechanics of the GPIIb- α -vWF Tether Bond	McIntire, Larry	BME
Gerber, Michael	BME	Dendritic cell treatment with biomaterials to treat rheumatoid arthritis	Babensee, Julia	BME
Hiatt, Luke	BME	Fluid mechanic regulation of extracellular matrix synthesis by differentiating embryonic stem cells	McDevitt, Todd	BME
Joshi, Nikhil	BME	Liposomal Contrast Agents for Digital Mammography	Bellamkonda, Ravi	BME
Meyers, James	CS	High performance, flexible FPGA and C based neural modeling via the DYNAMO compiler	Lee, Robert	BME
Nguyen, Anh	BME	Growth Factor Delivery through Polymer and Heparin Sulfate Network	Wang, Yadong	BME
Pan, Qingfen	BME	Design and Development of siRNA Knockdown and Hormone Stimulation Systems for the Modulation of Androgen Receptor mRNA Level, Localization, and Stability in Live Prostate Cancer Cells	Bao, Gang	BME
Secasanu, Virgil	BME	Directed neurite growth on neuro-inductive nanofibers	Wang, Yadong	BME
Somani, Karun	BME	Bone Marrow Stem Cell Differentiation into Neurons	Wang, Yadong	BME

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Tsai, Ginger	BME	Co-localization of extracellular matrix molecules with cell phenotype markers in differentiating embryonic stem cell microenvironments	McDevitt, Todd	BME
Yeh, Julie	BME	Engineering biodegradable nanofiber scaffolds to enhance Schwann cell migration	Bellamkonda, Ravi	BME
Gruendler, Jack	CEE	Integrating Vision and Range Data for Construction Site Performance and Safety Analysis	Teizer, Jochen	CEE
Putman, Christopher	CEE	The Analysis of Composite Columns Subjected to Axial Loading and Biaxial Bending	Leon, Roberto	CEE
Liang, Yue	CHEM	Structure-function Studies of the Phototoxicity of Red Fluorescent Proteins	Bommarius, Andreas	CHBE
Nojima, Cintia	CHBE	The Mechanism for Nanotube Growth: A Critical Issue in Nanotechnology	Nair, Sankar	CHBE
Porter, Nathan	CHBE	"A Spectroscopic Exploration of Molecular-Scale Interactions in Gas-Expanded Liquids"	Eckert, Charles	CHBE
Terrett, Stuart	CHBE	Synthesis and Characterization of a UV Cleavable Surfactant	Eckert, Charles	CHBE
Memarzadeh, Parveen	BME	Bursting Dynamics of a Coupled Two-Cell Model	Butera, Robert	ECE
Zhu, Sheng-Bo (declined)	ISYE	Logistics and Supply Chain on Diabetes in Countries	Griffin, Paul	ISYE
Kerzhner, Aleksandr	ME	Analyzing design alternatives using labeled intervals	Paredis, Chris	ME
Yano, Aika	ME	Input Shaping	Singhose, Bill	ME
Patel, Neil	MSE	Dispersion and Tailored Dielectric Properties of High-k Polymer Composites via Nanoparticle Surface Modification for Embedded Capacitor Applications	Wong, C. P.	MSE
College of Management				
Habib, Salma	MGMT	National Differences in Emergency Healthcare and Policy: A comparison between the United States and the United Kingdom	Higgins, Matthew	COM
College of Sciences				
Griffith, Anna	BIOL	Initiation of Embryogenesis from Mature Tissue of Pinus taeda	Pullman, Gerald	BIOL
Kim, Youngshin	MGMT	Monitoring Gene Expression during Somatic Embryo Formation on Full-Term Norway Spruce Seed Embryo	Pullman, Gerald	BIOL
Moore, Ellica	BIOL	Understanding Mechanisms of Sexual Reproduction in Rotifers	Kubanek, Julia	BIOL
Rollins, Geoff	CHEM	The Role of Twist in Bacteriophage Genome Packaging	Harvey, Steve	BIOL
Silberger, Daniel	BIOL	Expression of the putative bacteriocin gene, vpa1263, in Vibrio parahaemolyticus as a possible source of enhanced competition.	Sobecky, Patricia	BIOL
Chaudhry, Aneese	CHEM	Excited State Intramolecular Proton Transfer in 2-(2 ⁻ -Arylsulfonamidophenyl)benzimidazole Derivatives: The Substituent Effect of Arylsulfonamide on Photophysical Parameters and Protonation Equilibria	Fahrni, Christoph	CHEM

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Fagan, Crystal	CHEM	The Design, Synthesis and Evaluation of Potential Therapeutic Agents for Parasitic Diseases	Powers, James	CHEM
Fay, Nicole	BIOL	Visualizing Transcytosis through Targeted Delivery of Quantum Dots	Payne, Christine	CHEM
Givens, Rachel	CHEM	Investigation of the Effect of the Concentration of Capping Material on the Catalytic Activity of Gold Nanoparticles	El-Sayed, Mostafa	CHEM
Gordin, Ari	CHEM	Characterization of Quinone-Based Rhenium Oxide Complexes For Use in Photosystem II Inspired Solar-to-Fuel Conversion	Soper, Jake	CHEM
Le, Thao	CHEM	The Design, Synthesis Of Calpain Inhibitors For Treatment Of Peripheral Neuropathy	Powers, James	CHEM
Tene Defo, Brice	BME	Molecular Fabrication: Investigation of the scope of Heterogeneous Diazo-Transfer Reaction.	Oyelere, Adegboyega	CHEM
Vullo, Celia (declined)	CHEM	Improvement of Indanomycin Production in Streptomyces antibioticus NRRL 8167	Kelly, Wendy	CHEM
Wang, Alexander	CHEM	Synthesis of Core/Shell Microgels with Specific Matrix Metalloproteinase-dependent Folate Display	Lyon, Andrew	CHEM
Weigel, Emily (declined)	CHEM	The Formation of Nucleoside Linkages by Acetal Bonds Involving Glycolaldehyde	Hud, Nicholas	CHEM
Graab, Alison	EAS	Sea Surface Temperature Variability as recorded by a fossil coral from 900AD to 1100AD	Cobb, Kim	EAS
Young, Michael	MATH	Influence of Convectively Coupled Kelvin Waves on Atlantic Nino Onset	Fu, Rong	EAS
Campbell, Jenna	Physics	Porous Silicon: The Liftoff Etch to Create Nanostructured Interactive Filters	Gole, James	PHYSICS
Laminack, William	Physics	Nanosphere Silicon, The sweet spot	Gole, James	PHYSICS
Seltzman, Andrew	Physics	Dual species Bose-Einstein condensates.	Raman, Chandra	PHYSICS
Ahrens, Ashley	PSYCH	Working Memory as Measured By the Running Memory Span	Engle, Randall	PSYCH
Finton, Brendan	PSYCH	An Evaluation of Affective Forecasting in Older Adults	Blanchard-Fields, Fredda	PSYCH
Gay, Catherine	PSYCH	Short-term memory interference in sound timbre for different instruments	Engle, Randall W.	PSYCH
Palladino, Dianne	PSYCH	Time to Target and Learning Rates Using Auditory Menu Enhancements	Walker, Bruce	PSYCH
Roman, John	PSYCH	The effects of age differences emotional related brain potentials	Corballis, Paul	PSYCH
Ryan, Christopher	PSYCH	Driver Onset Braking Time: Approaching an Intersection	Corso, Gregory	PSYCH
Wells, Dionne	PSYCH	Does ADHD have a detrimental effect on working memory capacity?	Engle, Randall	PSYCH
Ivan Allen College				
Crowder, Jakob	LCC	Subterranean Voices: An Experiment in Location-Based Mobile Technology Experience Design	Bolter, Jay	LCC
Hunt, Chris	LCC	Milk bonds: Wet-nursing and the colonial domestic space	Hassan, Narin	LCC

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Vandagriff, Jenifer	LCC	Italian Futurist Cinema: Technology and Cultural Impacts	Dalle Vacche, Angela	LCC
Champlin, Kristie	PUBP	Our Posterity, the Forgotten Phrase	Barke, Richard	PUBP
Shah, Sarang	PUBP	The State of Environmental Policy and Politics in Georgia 2006	Weible, Chris	PUBP