

## Internal Grant Awards

### FY08

Over half a million dollars was awarded to 61 faculty members from 32 departments. These awards were based on an evaluation of 83 grant applications by an Internal Grant Peer Review Committee composed of 24 senior faculty members.

### Research Initiation Grants

**Page Anderson**, *Psychology*, Increasing the Cultural Relevance of Cognitive Behavioral Therapy for Social Anxiety.

**Anu Bourgeois**, *Computer Science*, Energy Efficient Schemes for IEEE 802.15.4 MAC Protocol.

**H. Spencer Banzhaf**, *Economics*, Measuring Progress: The History of Applied Welfare Economics.

**Mary Beth Calhoon**, *Educational Psy & Special Ed*, Middle School Remedial Mathematics Project.

**Caitlin Dooley; Ramona Matthews**, *Early Childhood Ed*, Emergent Comprehension: Literacy Development in Early Childhood

**Michael Gallivan**, *Computer Information Systems*, Offshore Outsourcing of IT Work: Understanding the Business Implications.

**Barbara Gormley**, *Counseling & Psy Services*, Intimate Partner Violence in College: Adult Attachment and Gender Influences.

**Adia Harvey**, *Sociology*, Marginalized Entrepreneurs: System Gendered Racism and the Emergence of a Racial Enclave Economy.

**Laura Kimble**, *Nursing*, The Impact of Chronic Angina on Daily Life Physical Function: A Pilot Study.

**Shi-Yu Lee**, *Nursing*, Sleep Disruption in Mothers of Low Birth Weight Infants: A Pilot Clinical Trial.

**Ramesh G. Mani**, *Physics & Astronomy*, Study of the Microwave-Induced Zero-Resistance States in the Two-Dimensional Electron System.

**Carrie Manning**, *Political Science*, Understanding the Role of Former Armed Opposition Groups in Building Post-Conflict Peace: A Proposal for a New Global Dataset.

**Kameelah Martin**, *English*, Conjuring Moments & Other Such Hoodoo: African American Women & Spirit Work.

**Eddy Nahmias**, *Philosophy*, Defending Free Will from the Sciences of the Mind.

**William Nichols**, *Modern & Classical Languages*, Reviving the Transition: Metamemory & National Identity in Recent Spanish Culture.

**Jennifer Patico**, *Anthropology*, International Matchmaking and the Politics of Gender: A View from Atlanta.

**Ann Pearman**, *Gerontology Institute*, Neuroticism and Memory in Older Adults.

**Julia Perilla**, *Psychology*, Participatory Action Research with Latino Families Affected by Domestic Violence.

**Klara Peter**, *Economics*, Flat Tax Income Inequality, and Tax Evasion

**Sebastian Rand**, *Philosophy*, Hegel and Early 19<sup>th</sup> Century Biology.

**Sheldon Schiffer**, *Communication*, Portraits of the Malecón.

**Greg Smith**, *Communication*, The Expressive Frame: Aesthetics & The Modern Comic Book.

**Rihana Smith**, *Psychology*, The Use of Context to Acquire New Word Meaning from Text.  
**Susan Talburt**, *Women's Studies Institute*, Translations and Institutional Feminist Knowledge Production: Perspectives from Chile.  
**Cassandra White**, *Anthropology*, Class, Race, and Citizenship Issues in the Brazilian Immigrant Community in Atlanta.  
**Yusen Xia**, *Managerial Sciences*, Revenue Management for Manufactures that Produce Vertically Differentiated Products.  
**Yongwei Yao**, *Mathematics & Statistics*, Embedding & Weak Embedding Theorems & Uniform Test Exponents.  
**Alexander Zelikovsky**, *Computer Science*, Computational Methods for Genetic Association Search and Susceptibility Prediction for Common Diseases.

### Research Team Awards

**Elisabeth Burgess**, *Sociology*; **Sharon King**, *Gerontology Institute*; **Susan Kelley**, *Health & Human Sciences*; Teen Pregnancy Prevention in Grandparent-Headed Families.  
**Lynda Goodfellow**; *Cardiopulmonary Care*, **Dan Benardot**; *Nutrition*, **Sheryl Flynn**; *Physical Therapy*; **Derek Shendell**; *Institute of Public Health*; **Ralph Zimmerman**, *Respiratory Therapy*. An Interdisciplinary Assessment of Selected Factors that Impact the Training and Performance of Endurance Event Participants at the Georgia Marathon

### Faculty Mentored Awards

**Yuki Fujioka**, *Communication*, **Mary Ann Ronski** (Mentor). Attentional Responses to Health Messages.  
**Heather Kleider**, *Psychology*, **Randall Engle** (Mentor). An Integrated Investigation of Aggression-Related Shooting Behavior.  
**Mariana Montiel**, *Mathematics and Statistics*, **Draga Vidakovic** (Mentor). The Four Parameters of Language Learning to Measure Fluency in Mathematical Discourse Using Qualitative and Categorical Techniques of Analysis.  
**Erin Ruel**, *Sociology*, **Kirk Elifson** (Mentor). Explaining Racial Health Disparities: The Effects of Community Racial History and Community SES.

### Scholarly Support Grants

**Teryl Frey**, *Biology*, Pathogenesis of Congenital Rubella Virus Infection.  
**Susanna Greer**, *Biology*, Identification of the Mechanism by which the 19S Proteasome ATPase S8 Regulates MHC II Transcription.  
**Margaret Harper**, *English*, Scholarly Edition of W.B. Yeats, *A Vision* (1937).  
**Chun Jiang**, *Biology*, Synaptic Mechanisms for CO<sub>2</sub> Chemosensitivity of Cultured Brainstem Neurons.  
**Marilynn Richtarik**, *English*, Stewart Parker: Belfast Playwright  
**Shahab Shamsi**, *Chemistry*, Novel Hyphenation Methods for Analysis of Mirror Image Pharmaceuticals.  
**Laura Taylor**, *Economics*, Land Use, Environmental Quality and Residential Property Values.  
**Dennis Thompson**, *Educ Psy & Spec Ed*, Book: Developmental Psychology in Historical Perspective.  
**Vijay Vaishnavi**, *Computer Information Systems*, LAIDBACK: A New Approach to User-Driven Dynamic Web Mining.

## FYO7 Awards

Over half million dollars was awarded to 75 faculty members from 28 departments. These awards were based on an evaluation of 82 grant applications by an Internal Grant Peer Review Committee composed of 22 senior faculty members.

### Research Initiation Grants

**Vadym Apalkov**, *Physics & Astronomy*, Transverse current through DNA molecule

**Mariana Arav**, *Mathematics & Statistics*, The Human Olfactory Recognition using Boolean Matrix Factorization

**Igor Belykh**, *Mathematics & Statistics*, Neuronal Networks: Synchrony and Pattern Formation

**Ly Bolia**, *Communication*, “Karen Gail, I Love You”

**Kuk-Jeong Chin**, *Biology*, Molecular Strategy for Developing Key Biomarkers to Estimate Rates of Anaerobic Hydrocarbon Degradation in Contaminated Environments

**Andrew Cohen**, *Philosophy*, Enriching Justice: Reconciling Competing Models

**Susanna Greer**, *Biology*, Proteasomal Mediated Regulation of the Initiation of MHC Class II Transcription

**Jun Han**, *Mathematics & Statistics*, Estimation of Heterogeneous Random Effects Model

**Michael Herb**, *Political Science*, Parliaments in the Gulf: Oil and the Long Road to Democracy

**Xialin Hu**, *Computer Science*, A Modeling and Simulation Framework for Computational Epidemiology

**Yurity Kitsul**, *Economics*, Empirical Risk Aversion in Experimental Financial Markets

**Heather Kleider**, *Psychology*, Individual Differences in Shoot/Don't Shoot

**Amy Landesberg**, *Interior Design*, Proto-typing Study for Digitally Enhanced Art or Safety Glass

**Yingshu Li**, *Computer Science*, Coverage in Sensor Networks

**Erin McClure**, *Psychology*, Social-Evaluative Cue Processing in Social Anxiety: Behavioral, Eye Movement, and Neural Correlates

**Mark McFarland**, *Music*, Stravinsky and the Player Piano: A Relationship Reconsidered

**Michael Owren**, *Psychology*, The Evolutionary Origins of Vowels and Consonants in Human Speech

**Dominic Parrott**, *Psychology*, Correlates of Female Sexual Prejudice: Examination of Personality, Situational, Emotional, and Cognitive Factors

**Arun Rai**, *Center for Process Innovation*, (AYSPS), The Efficiency and Real-Options Perspective for Inter-Firm Relationship Portfolio Management

**Kim Reimann**, *Political Science*, NGO's and Transnational Environmental Networks in East Asia

**Louis Ruprecht**, *Religious Studies*, A History of the Modern Public Art Museum

**Alexandra Smirnova**, *Mathematics & Statistics*, Novel Regularized Computational Schemes for Inverse Problem in Diffusion Based Optical Tomography

**Dona Stewart**, *Geosciences*, From Orientalism to Terrorism: Representation and Stereotypes of the Middle East

**Yuki Takatori**, *Modern & Classical Languages*, War Talk: How Military Necessity Changed the Japanese Language

**Yi Zhao**, *Mathematic & Statistics*, Graph Tiling Problems

### Faculty Mentored Awards

**Abdul Beyah**, *Computer Science*, **Yi Pan** (Mentor), Rogue Access Point Detection Using Temporal Traffic Characteristics

**Meera Penumetcha**, *Nutrition*, **Timothy Bartness** (Mentor), Dietary Oxidized Fatty Acids: A Role in Weight Regulation?

**Yichauan Zhao**, *Mathematics & Statistics*, **Guanto Chen** (Mentor), Statistical Analysis of High dimensional Microarray Gene Expression Data

### Research Team Awards

**Richard Baskerville**, **Detmar Straub**, **Carl Stucke**, **Vijay Vaishnavi** - *CIS*, **Martin Grace** – *RMI*, **Art Vandenberg** – *IS&T*, Information Technology Risk Management: Selective Shared Risk Network

**Chun Jiang** – *Biology*, **Markus Germann** – *Chemistry*, **Sushil Prasad** – *Computer Science*, Structure-Functional Relationship of Macromolecules such as K<sup>+</sup> Channels: High-Level Modeling and Effective Simulation

**Lauren Ristvet**, **Stephen Rapp** – *History*, Serur Rayon Archaeological Project

**Barbara Warner** – *Criminal Justice*, **Mary Ohmer**, **Elizabeth Beck** – *Social Work*, Developing a Training Program to Facilitate Collective Efficacy

### Research Equipment Grants

**Lynda Goodfellow**, *Respiratory Therapy*, Need for Body Plethysmograph in the Division of Respiratory Therapy

**Zhen Huang**, **Giovanni Gadda**, **Kathryn Grant**, **Binghe Wang**, *Chemistry*, Micro Array Analysis of Biomolecules and Diseases

**Unil Perera**, **Vladym Apalkov**, **Nikolaus Dietz**, **Brian Thoms**, **Xiaochun He**, *Physics & Astronomy*, Magnetic field effects on Semiconductors Leading to Novel Infrared and Spintronic Devices

**Eric Vanman**, **David Washburn**, *Psychology*, An Immersive Virtual Environment Laboratory to Study Social, Cognitive, and Emotional Processes