Thirteenth Annual

Undergraduate Research and Creative Achievement Day

April 22, 2009
Original Choreography

Dance Studio, Fine Arts 317
Faculty Moderator: Professor Doug Hamby, Dance

9:50 – 10:10 a.m.  Joshua Barnard  
“Something Like It”  
Professor Doug Hamby, Mentor  
Department of Dance

10:10 – 10:30 a.m.  Hannah Rzasa  
“Enraptured”  
Professor Doug Hamby, Mentor  
Department of Dance

10:30 – 10:50 a.m.  Tania Knight  
“passIoNate eMOTIOn”  
Professor Doug Hamby, Mentor  
Department of Dance

10:50 – 11:10 a.m.  Hannah Rzasa  
“Letters from Jane: A Tribute to Jane Austen”  
Professor Doug Hamby, Mentor  
Department of Dance

11:10 – 11:30 a.m.  Mya Ajanku  
“From Chaos”  
Professor Doug Hamby, Mentor  
Department of Dance

11:30 – 11:50 a.m.  Angel Chinn  
“Pluto 2086”  
Professor Doug Hamby, Mentor  
Department of Dance
Graphic Arts and Photography

10:00 – 11:30 a.m.
Fine Arts Building, First Floor Hallway Gallery

Faculty Moderator: Professor Franc Nunoo-Quarcoo, Visual Arts

Sarah Fry and Jenna Ullrich  
Department of Visual Arts  
“Female Genital Cutting”  
Professor Franc Nunoo-Quarcoo, Mentor

Alexandra Seley  
Department of Visual Arts  
“Constructed Landscapes”  
Professor Lynn Cazabon, Mentor

Samantha Song  
Department of Visual and Performing Arts  
“Child Brides, Stop Child Brides NOW!”  
Professor Franc Nunoo-Quarcoo, Mentor

Jesse Vaughan and Emma Rava  
Department of Visual Arts  
“Rape”  
Professor Franc Nunoo-Quarcoo, Mentor

Artistic Installation

10:00 – 11:30 a.m.
Fine Arts Stairwell

Jacob Jensen, Danielle Durbin, Kimberly Patrick, and Una Petrovic  
Department of Music  
“What’s Inside a Rose?; A Presentation of Dada and Surrealist Inspired Art”  
Professor Anna Rubin, Mentor
1:30 – 3:00 p.m.
Fine Arts Building, First Floor Hallway Gallery

Faculty Moderator: Professor Ilse Lottes, Sociology

Belen Getahun
Department of Visual Arts
“Gender Issues in Ethiopia”
Professor Franc Nunoo-Quarcoo, Mentor

Sean Heavey and Adam Utapat
Department of Visual Arts
“900,000: An Exploration of the International Human Trafficking Epidemic”
Professor Franc Nunoo-Quarcoo, Mentor

Terry Von Hagel
Department of Visual Arts
“Same Sex Union Laws”
Professor Franc Nunoo-Quarcoo, Mentor

Jesse Vaughan
Department of Visual Arts
“In Bed”
Professor Lynn Cazabon, Mentor

Artistic Installation

1:30 – 3:00 p.m.
Fine Arts Stairwell

Jacob Jensen,
Danielle Durbin,
Kimberly Patrick,
and Una Petrovic
Department of Music
“What’s Inside a Rose?; A Presentation of Dada and Surrealist Inspired Art”
Professor Anna Rubin, Mentor
## Animation and Video Screening

### Fine Arts Building, Room 221

Faculty Moderator: Professor Fred Worden, Visual Arts

<table>
<thead>
<tr>
<th>Time</th>
<th>Presenter</th>
<th>Title</th>
<th>Department of Visual Arts</th>
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<tbody>
<tr>
<td>1:15 – 1:25 p.m.</td>
<td>Glen Fortner</td>
<td>&quot;The Real World&quot;</td>
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<td>Professor Fred Worden, Mentor</td>
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<td>1:25 – 1:35 p.m.</td>
<td>Raychyl Segovia</td>
<td>&quot;Path to Perception&quot;</td>
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<td>Professor Cathy Cook, Mentor</td>
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<td>1:35 – 1:50 p.m.</td>
<td>David Hernandez</td>
<td>&quot;Just Beyond the Bridge&quot;</td>
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<td>Professor Fred Worden, Mentor</td>
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<td>1:50 – 2:05 p.m.</td>
<td>Brendan Huza</td>
<td>&quot;Aliens Love Cheerleaders&quot;</td>
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<td>Professor Fred Worden, Mentor</td>
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<tr>
<td>2:05 – 2:15 p.m.</td>
<td>Matt Szychowski</td>
<td>&quot;Cold Lady&quot; and &quot;Escape from Ping Island&quot;</td>
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<td>Professor Fred Worden, Mentor</td>
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<td>2:20 – 2:30 p.m.</td>
<td>Megan Zlock</td>
<td>&quot;Visual Symphony: Try to Believe&quot;</td>
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<td>Professor Eric Dyer, Mentor</td>
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<tr>
<td>2:30 – 2:40 p.m.</td>
<td>Agnes Asplund and Leslie Bristow</td>
<td>&quot;Our Own World&quot;</td>
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<td>Professor Fred Worden, Mentor</td>
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<td>2:40 – 2:55 p.m.</td>
<td>Jonathan Widmer</td>
<td>&quot;Movement&quot;</td>
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<td>Professor Fred Worden, Mentor</td>
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<tr>
<td>2:55 – 3:05 p.m.</td>
<td>Jessica Hale</td>
<td>&quot;Growth&quot;</td>
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<td>Professor Fred Worden, Mentor</td>
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<tr>
<td>3:05 – 3:25 p.m.</td>
<td>Matthew J. Szychowski</td>
<td>&quot;Blue Duck&quot;</td>
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<td>Professor Fred Worden, Mentor</td>
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Intermission

2:40 – 2:55 p.m.

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<th>Name</th>
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<td>&quot;Movement&quot;</td>
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<td>&quot;Blue Duck&quot;</td>
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Oral Presentations

University Center, Room 310

Session I
Faculty Moderator: Professor Raphael Falco, English

9:15 - 9:30 a.m.  H. Saeed  
Department of Political Science  
“Ending the Cycle of Violence: The Role of a Truth Commission”  
Professor Jeffrey Davis, Mentor

9:30 - 9:45 a.m.  Fatima Touma  
Department of Sociology and Anthropology  
“An Ethnographic Study of an Iraqi Refugee Community in Baltimore City”  
Professor Seth Messinger, Mentor

9:45 - 10:00 a.m.  Theresa Columbus  
Interdisciplinary Studies Program  
“Fear and Wisdom and Others”  
Professor Steven Bradley, Mentor

10:00 - 10:15 a.m.  Yelena Dewald  
Interdisciplinary Studies Program  
“The Internet and Iranian Youth Culture”  
Professor Devin Hagerty, Mentor

10:15 - 10:30 a.m.  Nikoletta Gjoni  
Department of English  
“Communism and Censorship: A Stunting of Albania’s Literary Culture or the Birthing of a Unique National Movement?”  
Professor Raphael Falco, Mentor

Session II
Faculty Moderator: Professor Shawn Bediako, Psychology

10:30 - 10:45 a.m.  Scott Murdock  
Department of Psychology  
“Autonomy Development, Support, and Future Orientation in Adolescent Mothers”  
Professor Charissa Cheah, Mentor

10:45 - 11:00 a.m.  Sadaf Siddiqi and Elizabeth A. Fitzgerald  
Department of Psychology  
“Dual Identity Formation Among Adolescent Mothers”  
Professor Charissa Cheah, Mentor
Oral Presentations

11:00 - 11:15 a.m.  Rhonda Bavis  
Department of Social Work  
“The Effects of Parental Substance Abuse on Children and Families”  
Professor Shelly Wiechelt, Mentor

11:15 - 11:30 a.m.  April Melton and Monica Talcott  
Department of Social Work  
“Volunteerism in the Aging Population”  
Professor Laura Ting, Mentor

11:30 - 11:45 a.m.  Doha Chibani  
Department of Psychology  
“Effects of Apparent Ethnicity in an Individual’s Name on Perceived Qualifications in the Professional Service Industry”  
Professor Diane Alonso, Mentor

11:45 - 12:00 p.m.  Tahira Mahdi  
Department of Psychology  
“It’s Written All Over Your Face: Perceptions of Genetic Illnesses”  
Professor Shawn Bediako, Mentor

Session III  
Faculty Moderator: Professor Todd Pittman, Physics

1:15 - 1:30 p.m.  Stephanie Ferrone  
Department of Physics  
“Quantum Interference Effects with Multimode Fibers”  
Professor Todd Pittman, Mentor

1:30 - 1:45 p.m.  Olufolakemi Awe  
Biochemistry and Molecular Biology Program  
“Analyzing the Interaction Partners, BfpU and BfpA, of the Bundlin Forming Pilus of Enteropathogenic E. coli (EPEC)”  
Professor Michael Donnenberg, Mentor

1:45 - 2:00 p.m.  Sunaina Khandelwal  
Biochemistry and Molecular Biology Program  
“PBMC from a Subpopulation of Celiac Patients Respond to Gliadin with Interleukin-8 Production That Is CXCR3-Dependent”  
Professor Alessio Fasano, Mentor

2:00 - 2:15 p.m.  Dhivya R. Pahwa  
Department of Psychology  
“Categorical Person Perception in Sickle Cell Disease”  
Professor Shawn Bediako, Mentor
# Oral Presentations

**Session IV**  
**Faculty Moderator:** Professor Andrea Kalfoglou, Sociology and Anthropology

<table>
<thead>
<tr>
<th>Time</th>
<th>Name</th>
<th>Department/Program</th>
<th>Title</th>
<th>Mentor</th>
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<tbody>
<tr>
<td>2:15 - 2:30 p.m.</td>
<td>Melissa Chapman</td>
<td>Department of Biological Sciences</td>
<td>“To Tell or Not to Tell: The Ethical Dilemma of Carrier Testing for Gaucher’s Disease”</td>
<td>Professor Andrea Kalfoglou</td>
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<tr>
<td>2:30 - 2:45 p.m.</td>
<td>Esther Lei</td>
<td>Health Administration and Policy Program</td>
<td>“Re-evaluating Malaria Prevention Techniques in Zambia”</td>
<td>Professor Danika Rockett</td>
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<tr>
<td>2:45 - 3:00 p.m.</td>
<td>Neal Karkhanis</td>
<td>Health Administration and Policy Program</td>
<td>“Survey of UMBC Students’ Knowledge, Attitudes, and Beliefs about Seeking Care for Emotional and Mental Health Problems”</td>
<td>Professor Andrea Kalfoglou</td>
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<tr>
<td>3:00 - 3:15 p.m.</td>
<td>Robin Cagey</td>
<td>Department of Sociology and Anthropology</td>
<td>“The Effect of Incarceration on the Spouses and Partners of Inmates”</td>
<td>Professor Robert Rubinstein</td>
</tr>
<tr>
<td>3:15 - 3:30 p.m.</td>
<td>Maureen C. Maselko</td>
<td>Department of History</td>
<td>“‘Under the Colour of Religion’: The Formation of Group Identity in Early Modern Ireland”</td>
<td>Professor Amy Froide</td>
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</table>
Oral Presentations

University Center, Room 312

Session I
Faculty Moderator: Professor Daniele Fabris, Chemistry

9:15 - 9:30 a.m.  
George Cutsail, III  
Department of Chemistry  
“Copper Amyloid-beta Complex in Alzheimer’s Disease”  
Professor Veronika Szalai, Mentor

9:30 – 9:45 a.m.  
Mayukh Chakrabarti  
Bioinformatics and Computational Biology Program  
“Mechanism of Action of the CDK5-GR-APP Pathway in Beta-Amyloid Production and Alzheimer’s Disease Pathogenesis”  
Dr. Tomoshige Kino, Mentor

9:45 – 10:00 a.m.  
Michael German  
Department of Chemistry  
“ESI-FTICRMS Characterization of Deoxyribozymes Targeting Conserved Domains of the HIV-1 Packaging Signal”  
Professor Daniele Fabris, Mentor

10:00 - 10:15 a.m.  
Matthew Schultz  
Department of Information Systems  
“Knowledge-Supported Evolutionary Computation in Financial Investing”  
Professor Roy Rada, Mentor

10:15 - 10:30 a.m.  
Immanuel Williams  
Department of Mathematics  
“Pharmacokinetics of D3 Receptor Analogs: Potential Drug Therapy for Cocaine Addiction”  
Professor Natalie Eddington, Mentor

Session II
Faculty Moderator: Professor Hua Lu, Biological Sciences

10:30 - 10:45 a.m.  
Jessica McGrath  
Department of Biological Sciences  
“The Relationship Between the Structure of the FIV Matrix Protein and its Ability to Target the Plasma Membrane”  
Professor Michael Summers, Mentor
Oral Presentations

10:45 - 11:00 a.m.  Tamika John  
Department of Biological Sciences  
“Investigating the Role of RORgammaT in Human Th17 Cell Differentiation”  
Professor Lasse Lindahl, Mentor

11:00 - 11:15 a.m.  Dina Popovkina  
Biochemistry and Molecular Biology Program  
“The Effect of Corticosterone and trkB Receptor Downregulation on Dendritic Spine Density”  
Professor Scott Thompson, Mentor

11:15 - 11:30 a.m.  Sasan Salimian  
Department of Biological Sciences  
“Exploiting acd6-1 in Dissection of Defense Signaling Networks in Arabidopsis”  
Professor Hua Lu, Mentor

11:30 - 11:45 p.m.  Rob Low, Fellipe F. Balieiro, Timothy D. Courtney, Thomas C. Hsu, and Khurram S. Mahmood  
Department of Chemical Engineering  
“Design for Algae-Based Biodiesel and Ethanol Fuel Plant”  
Professor Mariajose Castellanos, Mentor

Session III  
Faculty Moderator: Professor Jason LoViglio, Media and Communication Studies

1:15 - 1:30 p.m.  Marcus Simmons  
Department of Music  
“If You Can Talk, You Can Sing”  
Professor David Smith, Mentor

1:30 - 1:45 p.m.  Danielle Durbin  
Department of Music  
“Flute Lineage”  
Professor Lisa Cella, Mentor

1:45 - 2:00 p.m.  Susan Kane  
Department of American Studies  
“Designing Culturally-Sensitive Curricula in Native American Reservation Schools: The Seminole Nation”  
Professor Kathy Bryan, Mentor
Oral Presentations

2:00 - 2:15 p.m.  
Alexandra Hyland  
Department of American Studies  
“The Baltimore Girl: An Experiment in Sustainable Living”  
Professor Jason Loviglio, Mentor

2:15 - 2:30 p.m.  
Alexander Bush  
Department of History  
Professor Rebecca Boehling, Mentor  
Professor Constantine Vapouris, Mentor

2:30 - 2:45 p.m.  
Teresa Bass Foster and Vicki M. Heath  
Department of History  
“Using Court Records as Historical Sources: A Study of Infanticide in 18th-century London’s Old Bailey Criminal Court”  
Professor Amy Froide, Mentor

2:45 - 3:00 p.m.  
Valerie Lagrome  
Department of Modern Languages and Linguistics  
“Linguistic Norm Enforcement on the Internet: Chatspeak in Forum Communities”  
Professor Thomas Field, Mentor

3:00 - 3:15 p.m.  
Holly-Catherine Britton  
Department of Modern Languages and Linguistics  
“Lexical Variations in Telling Clock Time: A Study of Age and Style Differences”  
Professor Thomas Field, Mentor

3:15 - 3:30 p.m.  
Kristina Gaddy  
Department of Modern Languages and Linguistics  
“Creating National Identity and Memory: The German Historical Museum”  
Professor Susanne Sutton, Mentor
Panel Discussion

University Center, Room 201B

2:15 – 3:30 p.m.

Ethics and Contemporary Policy Issues

Chair: Professor Richard Wilson, Philosophy and Computer Science
Discussant: Professor Simon Stacey, Political Science and Honors College

Bryan Clark and Harshavardhan Bambawale
Department of Philosophy
“Identity Theft”
Professor Richard Wilson, Mentor

Clayton Day, Jay Chung, and Thaha Shafi
Department of Philosophy
“The Wall Street Shadow Market”
Professor Richard Wilson, Mentor

Jason VerHoef, Brian Steele, and Yakubu Wanka
Department of Mechanical Engineering
“Analysis of the South Korean Sampoong Department Store Collapse From An Engineering Ethics Prospective”
Professor Richard Wilson, Mentor
## Poster Presentations

**University Center Ballroom**

10:00 a.m. – 12:30 p.m.

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<th>Presenter</th>
<th>Department</th>
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<tbody>
<tr>
<td>Nizeet Aguilar</td>
<td>Department of Chemical Engineering</td>
<td>“Feasibility Study of the Design of Artovastatin Calcium (Lipitor®) Pharmaceutical Plant”</td>
<td>Professor Mariajose Castellanos, Mentor</td>
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<td>Robert P. Reeves</td>
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<td>Robert J. Marino</td>
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<td>Adebimpe D. Oyede</td>
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<td>Jessica DeWitt</td>
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<td>Bridget Armstrong</td>
<td>Department of Psychology</td>
<td>“Effects of Using Head Mounted Display Helmet for Virtual Reality Distraction on Cold Pressor Pain in College Students”</td>
<td>Professor Lynnda Dahlquist, Mentor</td>
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<td>Craig Whitten</td>
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<tr>
<td>Brook Asameneew</td>
<td>Department of Biological Sciences</td>
<td>“Analysis of the c-Myc Transcription Factor in Mouse Models of Prostate Cancer”</td>
<td>Professor Charles Bieberich, Mentor</td>
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<tr>
<td>Maria Beckford</td>
<td>Biochemistry and Molecular Biology Program</td>
<td>“Synthesis of a Flexible Carboxycyclic Nucleoside”</td>
<td>Professor Katherine Radtke, Mentor</td>
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<tr>
<td>Richard Blissett</td>
<td>Health Administration and Policy Program</td>
<td>“PGS: A Fishy Business”</td>
<td>Professor Andrea Kalfoglou, Mentor</td>
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<tr>
<td>Danielle Chestang</td>
<td>Management of Aging Services</td>
<td>“Neighbor Helping Neighbor Time Banking Model: Vital to Communities?”</td>
<td>Professor Brandy Harris-Wallace, Mentor</td>
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<td>Lauren Proctor</td>
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<td>Elizabeth Bunker</td>
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<tr>
<td>Jessica Childs</td>
<td>Department of Geography and Environmental Systems</td>
<td>“Food Deserts and their Presence in a Southwest Community of Baltimore City”</td>
<td>Professor Laura Lewis, Mentor</td>
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Poster Presentations

Irene Cho  
Department of Biological Sciences  
“The Effects of the Gene S6 kinase on Immune Response in Drosophila melanogaster”  
Professor Jeff Leips, Mentor  
Poster # 13

Geoffrey Clapp  
Department of Mathematics  
“Modeling Sensory Input to the Lamprey Spinal Cord”  
Professor Kathleen Hoffman, Mentor  
Poster # 56

Ryan Connor  
Department of Chemical Engineering  
“Poor Drug Penetration into the Central Nervous System and its impact on HIV-1 Pathogenesis: A Mathematical Model”  
Professor Mariajose Castellanos, Mentor  
Poster # 30

Timothy Courtney  
Department of Chemical Engineering  
“Efficacy of Protein Quantitation Assays Compatible with Two-Dimensional Gel Electrophoresis”  
Professor Mark Marten, Mentor  
Poster # 21

Casey Daniels  
Wyeth Research  
“How Skin Ages: Exploring the Role of the Nuclear Receptor LXRbeta in the Skin”  
Professor Catherine Thompson, Mentor  
Poster # 59

Bilguujin Dorjsuren  
Biochemistry and Molecular Biology Program  
“Investigation of the Existence of a Possible RNA Long-Range Interaction in the 5'-Untranslated Region of the HIV-1 Genome”  
Professor Michael Summers, Mentor  
Poster # 17

Joseph Dulny, III  
Department of Physics  
“Effects of a Dipolar Polymer Host Matrix on the Poling Efficiency of Guest Chromophores”  
Professor L. Michael Hayden, Mentor  
Poster # 34

Deanna Easley  
Department of Mechanical Engineering  
“Investigation on the Creation of a More Efficient Wear Test Machine with Controlled Environments”  
Professor Timmie Topoleski, Mentor  
Poster # 33
## Poster Presentations

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<th>Name</th>
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<tbody>
<tr>
<td>Alison Ebaugh</td>
<td>Department of Mathematics</td>
<td>“A Biophysical Model of Synaptic Plasticity”</td>
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<td><strong>Professor Jonathan Bell, Mentor</strong></td>
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<tr>
<td>Ejiofor Ezekwe Ramon</td>
<td>Department of Biological Sciences</td>
<td>“Irritant-Induced Proliferation of Presumed Solitary Chemosensory Cells in the Airway”</td>
<td># 75</td>
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<td>Cabrera</td>
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<td><strong>Professor Weihong Lin, Mentor</strong></td>
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<td>Whitney Fields</td>
<td>Department of Biological Sciences</td>
<td>“Localization of Myo1 in <em>Saccharomyces cerevisiae</em> Mutants with a Multi-budded Phenotype”</td>
<td># 82</td>
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<td><strong>Professor Janice Zengel, Mentor</strong></td>
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<tr>
<td>Phillip Fitzgerald</td>
<td>Department of Biological Sciences</td>
<td>“Increased Expression of SOCS1 by HIV-1 Transgenic Rats: A Mechanism for Dysregulated T Helper-1 Responses”</td>
<td># 78</td>
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<td><strong>Professor William Reid, Mentor</strong></td>
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<tr>
<td>Tiffany Fleet</td>
<td>Biochemistry and Molecular Biology Program</td>
<td>“The Connection Between Abnormal Ribogenesis and the Cell Cycle”</td>
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<td><strong>Professor Lasse Lindahl, Mentor</strong></td>
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<tr>
<td>Aurelius Graninger</td>
<td>Department of Computer Engineering</td>
<td>“Stand-Off Chemical Detection Using Acoustic Beamforming and Photoacoustic Sensing”</td>
<td># 98</td>
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<td><strong>Professor Fow-Sen Choa, Mentor</strong></td>
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<tr>
<td>Jessica M. Griffith</td>
<td>Department of Psychology</td>
<td>“Sex Differences in Pain Responses: Do Men and Women Experience Pain Differently?”</td>
<td># 36</td>
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<td><strong>Professor Lynanne M. McGuire, Mentor</strong></td>
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<td>Roger Guseman</td>
<td>Department of Computer Science</td>
<td>“Probabilistic Constrained Relational Clustering with an Application to Facebook”</td>
<td># 4</td>
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<td><strong>Professor Marie desJardins, Mentor</strong></td>
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<tr>
<td>Ana Hageage</td>
<td>Department of Sociology and Anthropology</td>
<td>“Belize Valley Archaeological Reconnaissance”</td>
<td># 68</td>
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<td><strong>Professor Esther Read, Mentor</strong></td>
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<tr>
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<tr>
<td>Peter Hamilton</td>
<td>Department of Computer Science</td>
<td>18</td>
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<td></td>
<td>“Applying Swarm Rule Abstraction to a Wireless</td>
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<td>Sensor Network Domain”</td>
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<td>Professor Marie desJardins, Mentor</td>
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<td>Chelsea Hayman</td>
<td>Department of Sociology and Anthropology</td>
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<td>“I am an African, That is my Religion: Reproducing</td>
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<td>Africanness and Community in Baltimore”</td>
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<td>Joseph Hyman</td>
<td>Department of Computer Engineering</td>
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<td>“Development of an Algorithm to Allow Robots</td>
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<td>to Objectively Analyze Causally Relevant Objects</td>
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<td>Professor Tim Oates, Mentor</td>
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<td>Chioma Ihekwazu</td>
<td>Department of Biological Sciences</td>
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<td>“Production of an EMMPRIN Murine Immunoglobulin</td>
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<td>Fc Fusion Protein to Study Tumor Invasion”</td>
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<td>Joy Ihekwazu</td>
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<td>“Self-Reporting Fluorescent Nanogels”</td>
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<td>Professor Lisa Kelly, Mentor</td>
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<td>Ruby Jackson-Atogi</td>
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<td>“The Role of Prior Experience on Parasitoid</td>
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<td>Vovanti Jones</td>
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<td>“Using Next Generation Solexa Sequencing to</td>
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<td>Identify Genes that Regulate Stem Cell Proliferation in the C. elegans Germline”</td>
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<td>Professor Tim Schedl, Mentor</td>
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<td>Sara Kibrom</td>
<td>Biochemistry and Molecular Biology Program</td>
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<td>“Crotamine Interaction with Polysaccharides and Ternary Complex Formation”</td>
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<td>Professor Richard Karpel, Mentor</td>
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<td>Nathaniel Kim</td>
<td>Department of Chemistry</td>
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<td>“Developing Carboxyclic Nucleoside Fleximers as Novel Drug Tools to Combat Drug Resistance”</td>
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<td>Michael Lombardi</td>
<td>Department of Computer Science</td>
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<td>“Measuring General Relational Structure Using the Block Modularity Clustering Objective”</td>
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<td>Gabrielle McRae</td>
<td>Biochemistry and Molecular Biology Program</td>
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<td>“The Effect of Toll-Like Receptors on Dendritic Cell Activity and T-Cell Activation”</td>
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<td>Aaron Pearlman</td>
<td>Department of Physics</td>
<td>61</td>
<td>“A Model for Iron K Absorption in the Low-Mass X-ray Binary GX 13+1”</td>
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<td>Alexandra Psihogios</td>
<td>Department of Psychology</td>
<td>88</td>
<td>“The Effects of Age Differences in Preschool Children on Help-Seeking Behaviors During Easy and Difficult Puzzle Tasks”</td>
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<td>Sharanya Ravichandran</td>
<td>Department of Political Science</td>
<td>47</td>
<td>“The Caste System and its Prevalence in Contemporary Indian Society”</td>
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<td>Mary Rhee</td>
<td>Health Administration and Policy Program</td>
<td>69</td>
<td>“Ethical Issues Unique to Facial Transplantation”</td>
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<tr>
<td>Nirav Shelat</td>
<td>Biochemistry and Molecular Biology Program</td>
<td>22</td>
<td>“Structural Development of Streptococcus oralis YC1 Polysaccharide through NMR Spectroscopy”</td>
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</table>
Poster Presentations

Daniel Shook  
Biochemistry and Molecular Biology Program  
“Analysis of DNA Binding Amino Acids of Gene 32 Protein and Crotamine by Mass Spectroscopy”  
Professor Richard Karpel, Mentor  
Poster # 42

Elizabeth Silberholz  
Department of Psychology  
“The Relation Between Pediatric Food Allergy Severity, Peer Interactions, and Report of Child Behavioral Problems”  
Professor Lynnda Dahlquist, Mentor  
Poster # 40

Tesia Stephenson  
Biochemistry and Molecular Biology Program  
“Identifying Novel Cell Cycle Regulators in Budding Yeast”  
Dr. Orna Cohen-Fix, Mentor  
Poster # 53

Sara Stockman  
Department of Biological Sciences  
“Assessment of Hippocampal Integrity In Development of Specific Anti-mitotic Lesion Model”  
Professor Greg Elmer, Mentor  
Poster # 89

Margarita Tsionsky  
Department of Biological Sciences  
“Characterization of SUP3 Homologues in Arabidopsis defense”  
Professor Hua Lu, Mentor  
Poster # 72

Steven Tuyishime  
Department of Biological Sciences  
“Myo1 Localization’s Effect on Multi-Budded Phenotype in Saccharomyces cerevisiae”  
Professor Janice Zengel, Mentor  
Poster # 64
Poster Presentations

UMBC Game Developer's Club
Department of Computer Science

Poster # 1
Officers: Lesa Wilcox, Joel Bowers, Taylor Evans, Luis Rivera; Programming: Jonathan Moriarty, Alex Lacey, Alex Brindley, Brian Caine, Shawn Marsden, David Hack, Matt Song, Matthew Kalkbrenner, Jonathan Merkle, Gini Bailey, Colin Taylor, Jan Zheng, Joshua Tunzi, Kevin Markey, Daniel Hogberg, Alex Evers, Ben Harris, Jurrell Brown, Greg Aring, James Weaver; Art: Jonathan Pack, Eve Addison, Tommy Truong, Wallace Brown, Scott Stevens, Richard Lee, Isaac Sohn, Cody Pearson, Jon Schubbe, Donovan Hall; Sound: Gavin O'Leary, Erin Terwilliger, Danny Hollis

"Explorations in Game Development: Creating 2D and 3D Worlds"
Professor Marc Olano and Graduate Assistants
Charles Lohr and David Chapman, Mentors

Katherine Woronowicz
Department of Biological Sciences
Poster # 43
“Investigating the Secondary Structure of the Mouse Melanopsin Carboxy-Tail”
Professor Phyllis Robinson, Mentor

Rebecca Zia
Department of Psychology
Poster # 24
“Moderating and Mediating Factors in the Association Between Maternal Psychological Control and Child Aggression in Chinese Immigrants”
Professor Charissa Cheah, Mentor
<table>
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<tr>
<th>Name</th>
<th>Program</th>
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<tr>
<td>Asa Adadey</td>
<td>Bioinformatics and Computational Biology Program</td>
<td>60</td>
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<td>“Computational Methods for Linking Domain Loss or Substitution in Alternative Splicing Variants with Diseases”</td>
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<td>Professor Maricel Kann, Mentor</td>
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<tr>
<td>Anissa Alexander</td>
<td>Biochemistry and Molecular Biology Program</td>
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<td></td>
<td>“The Serine Repeat Antigen5: A Promising Malaria Vaccine Candidate”</td>
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<td>Professor Christopher Plowe, Mentor</td>
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<td>Yohance Allette</td>
<td>Department of Biological Sciences</td>
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<td>“Analysis of the MAP dclk1 and its Effect on Microtubule Stabilization During Neurulation in the Zebrafish”</td>
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<td>Professor Rachel Brewster, Mentor</td>
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<td>Penina Backer</td>
<td>Department of Psychology</td>
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<td>“The Effects of Educational Content and Gender on the Perception of Individuals with Schizophrenia”</td>
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<td>Professor Mariano Sto. Domingo, Mentor</td>
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<td>Stephanie Battle</td>
<td>Biochemistry and Molecular Biology Program</td>
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<td>“Structure-Function Analysis of the Novel Defense Protein SUP3 in Arabidopsis thaliana”</td>
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<td>Professor Hua Lu, Mentor</td>
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<td>Samantha Bier</td>
<td>Interdisciplinary Studies Program</td>
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<td>“Perspectives in Global Health: Working with Survivors of Torture and Trauma”</td>
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<td>Professor Bambi Chapin, Mentor</td>
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<td>Richard Blissett</td>
<td>Bioinformatics and Computational Biology Program</td>
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<td>“Optimization of Species Selection for Genome-Wide Application of the Mirrortree Method”</td>
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<td>Professor Maricel Kann, Mentor</td>
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Poster Presentations

Jonathan Bollinger  Department of Chemical Engineering  Poster # 65
Goncalo Maia  “In silico Modeling and Optimization of Algal Biomass Production”
Michael Pacella  Professor Mariajose Castellanos, Mentor
Michael German

Brandon Borde  Department of Mechanical Engineering  Poster # 35
Oluwatimilehin Fadiran  “Analysis of the Mechanical Behavior of Bovine Descending Aorta Under Various Conditions”
Professor Timmie Topoleski, Mentor

Ashleigh Bouchelion  Department of Biological Sciences  Poster # 70
“The Wnt Pathway: Identification of Target Genes in *C. elegans*”
Professor David Eisenmann, Mentor

Cally Brandt  Department of Ancient Studies  Poster # 20
“‘Ways of Seeing’ - Looking at The Creative Photograph in Archaeology Exhibit in the Albin O. Kuhn Library Gallery”
Professor Richard Mason, Mentor

Destiney Buelto  Biochemistry and Molecular Biology Program  Poster # 55
Nkechinyere A. Emezienna  “Characterization of Brown Adipose Tissue in the Adult Mammary Gland of Brca1-Mutant Mice”
Professor Laundette Jones, Mentor

Erwin Cabrera  Department of Biological Sciences  Poster # 79
“Probing the Structure of Rhodopsin and Human Green Opsin Using Site Directed Spin Labeling”
Professor Phyllis Robinson, Mentor

Elizabeth Campbell  Department of Chemistry  Poster # 14
“Solvent Effects on Charge Transfer Complexes”
Professor Bradley Arnold, Mentor

Michael Castello  Department of Biological Sciences  Poster # 77
“Changes in MMP-9 Protein Levels as an Indicator of Brain Perturbation by Nicotine Exposure”
Professor Jessica Mong, Mentor

Mohsan Chaudhry  Biochemistry and Molecular Biology Program  Poster # 26
“Ring-Expanded Nucleosides/Nucleotides as Potential Anti-Viral and Anti-Cancer Agents”
Professor Ramachandra Hosmane, Mentor
Poster Presentations

Nancy Chiles  
Department of Biological Sciences  
“Education and its Role in Recovery from a Hip Fracture”  
Professor Ann Gruber-Baldini, Mentor

Nwamaka Dike  
Biochemistry and Molecular Biology Program  
“Regulation of the Antiviral Tumor Suppressor RNase-L by MicroRNAs”  
Professor Bret Hassel, Mentor

Monique Foster  
Biochemistry and Molecular Biology Program  
“Impact of Cu(I) Binding to Amyloid-beta in Alzheimer’s Disease”  
Professor Veronika Szalai, Mentor

Tyler Frankel  
Department of Biological Sciences  
“Disassortative Mating Based on Color in the Freshwater Platyfish Xiphophorous maculatus (Poeciliidae)”  
Professor Tamra Mendelson, Mentor

Lydia Grmai  
Department of Biological Sciences  
“Mechanisms of Suppression in Breast Cancer”  
Professor Suzanne Ostrand-Rosenberg, Mentor

Robert Henderson  
Department of Chemical Engineering  
“HIV Dynamics: Infection Kinetics”  
Professor Mariajose Castellanos, Mentor

Daniel Jones  
Department of Environmental Science  
“3D Tour of an Urban Environmental Research Site Using Google® Earth and KML”  
Professor Junmei Tang, Mentor

Amanda Karp  
Department of Chemical Engineering  
“Feasibility Study for Constructing and Aspartame Plant”  
Professor Mariajose Castellanos, Mentor

Eric Borman  
Anrieth Gomes  
Lawrence Hetzel  
Daniel Kostick  

Benym Kinde  
Biochemistry and Molecular Biology Program  
“An NMR Protocol for the High-Resolution Structure Determination of Large RNAs”  
Professor Michael Summers, Mentor
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<th>Program</th>
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<td>Gowry Kulandaivel</td>
<td>Biochemistry and Molecular Biology Program</td>
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<td>“Disproving the Existence of an Interaction Between the Primer Binding Site and the SL4 Stemloop of the HIV-1 RNA Genome”</td>
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<td>Professor Michael Summers, Mentor</td>
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<td>Albert Kung</td>
<td>Bioinformatics and Computational Biology Program</td>
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<td>“Training a Neural Network to Detect Binding Sites Based on Bendability and Curvature Information”</td>
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<td>Professor Ivan Erill, Mentor</td>
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<td>Elizabeth Lamontagne</td>
<td>Department of Psychology</td>
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<td>“Pain-Related Anxiety Correlates with Sensory Aspects of Pain”</td>
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<td>Professor Lynanne McGuire, Mentor</td>
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<td>Paula McCusker</td>
<td>Department of Chemical Engineering</td>
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<td>“A Mathematical Model of the HPV Infection Mechanism”</td>
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<td>Jessica Michaels</td>
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<td>Professor Ramachandra Hosmane, Mentor</td>
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<td>Ian Nolen</td>
<td>Department of Physics</td>
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<td>“Ellipsometric Measurements of the Electro-Optic Coefficient”</td>
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<td>Oluwaseun Olayiwola</td>
<td>Department of Chemical Engineering</td>
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<td>“GTPases Mathematical Framework Dynamics”</td>
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<td>Professor Mariajose Castellanos, Mentor</td>
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<td>Nana Owusu-Boaitey</td>
<td>Department of Biological Sciences</td>
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<td>“The Utilization of TAT Fusion Protein for Tolerance Induction in the EAE Model”</td>
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<td>Professor David Scott, Mentor</td>
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<td>Michael Pacella</td>
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<td>Ryan Park</td>
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<td>Joel Gwinn</td>
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<td>Nicole Parker</td>
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<td>Michael Reid</td>
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<td>Aileen Richards</td>
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<td>Ashrith Mathias</td>
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<td>Olu Olayiwola</td>
<td>Biochemistry and Molecular</td>
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<td>Christelle Samen</td>
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<td>Melissa Santos</td>
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### Poster Presentations

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<tr>
<th>Name</th>
<th>Department</th>
<th>Title</th>
<th>Mentor</th>
<th>Poster #</th>
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<tbody>
<tr>
<td>Barbara Scheffter</td>
<td>Department of Music</td>
<td>“Getting a Handel on Bells: Designing a Summer Music Camp that ‘Rings True’ with Music Education Theory”</td>
<td>Professor Airi Yoshioka, Mentor</td>
<td># 2</td>
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<tr>
<td>Alexandria Scott</td>
<td>Department of Biological Sciences</td>
<td>“Using Phylogenetic Differences Between Species to Estimate Geological Timing”</td>
<td>Professor Tamra Mendelson, Mentor</td>
<td># 31</td>
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<tr>
<td>Tanu Sharma</td>
<td>Biochemistry and Molecular Biology Program</td>
<td>“Searching for the Counterion to the Protonated Schiff Base in Melanopsin”</td>
<td>Professor Phyllis Robinson, Mentor</td>
<td># 8</td>
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<tr>
<td>Igor Shusterman</td>
<td>Biochemistry and Molecular Biology Program</td>
<td>“Prefrontal Cortex Deficits in a Delay Odor Discrimination Task in a Rat Model of Schizophrenia”</td>
<td>Professor Patricio O'Donnell, Mentor</td>
<td># 19</td>
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<tr>
<td>Priya Tiwari</td>
<td>Department of Political Science</td>
<td>“Delegated to Represent? Exploring the Racial and Gender Differences in Delegate Demographics at the 2008 Democratic National Convention”</td>
<td>Professor Tyson King-Meadows, Mentor</td>
<td># 37</td>
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<tr>
<td>Betty Irungu</td>
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<td>Gillian Yeadon</td>
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<td>Katie Papagiika</td>
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</table>
Poster Presentations

UMBC Game Developer’s Club
Department of Computer Science

Officer: Lesa Wilcox, Joel Bowers, Taylor Evans,

Luis Rivera; Programming: Jonathan Moriarty,

Alex Lacey, Alex Brindley, Brian Caine, Shawn Marsden,

David Hack, Matt Song, Matthew Kalkbrenner,

Jonathan Merkle, Gini Bailey, Colin Taylor, Jan Zheng,

Joshua Tunzi, Kevin Markey, Daniel Hogberg, Alex Evers,

Ben Harris, Jurrell Brown, Greg Aring, James Weaver;

Art: Jonathan Pack, Eve Addison, Tommy Truong,

Wallace Brown, Scott Stevens, Richard Lee, Isaac Sohn,

Cody Pearson, Jon Schubbe, Donovan Hall;

Sound: Gavin O’Leary, Erin Terwilliger, Danny Hollis

“Explorations in Game Development: Creating 2D and 3D Worlds”

Professor Marc Olano and Graduate Assistants
Charles Lohr and David Chapman, Mentors

Melvin Velasquez
Department of Chemistry

“Design and Synthesis of Flexible 2’-Deoxy Nucleoside Analogs (Fleximers) As Potential Chemotherapeutic Agents”

Professor Katherine Seley-Radtke, Mentor

Samantha Watts
Department of Social Work

“Examining the Barriers and Facilitators to Breastfeeding in Women Attending a Post-Secondary Educational Institution”

Professor Tiffany Baffour, Mentor

Hannah Wilson
Department of Chemical Engineering

“Effect of Nutrient Conditions on Staphylococcus aureus Biofilm Formation”

Professor Julia Ross, Mentor