Honors and Emerging Scholars
Poster Presentation

Learning Communities
Theme Based Poster Presentation

THURSDAY, DECEMBER 2, 2010
11:00 AM - 4:00 PM

FRIDAY, DECEMBER 3, 2010
10:00 AM - 3:00 PM
AWARDS CEREMONY AT 1:00 PM

KLITGORD GYM
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Awards Ceremony

December 3, 2010
Klitgord Gym
1:00 PM

Welcome
Janet Liou-Mark, PhD
Honors Scholars Program Coordinator

Greetings
Russell Hotzler, PhD
President
Bonne August, PhD
Provost & Vice President for Academic Affairs
Pamela Brown, PhD
Dean, School of Arts and Sciences
Barbara Grumet, JD
Dean, School of Professional Studies
Estela Rojas, EdD
Director of Learning Communities

Museum of the Moving Image
October 2010

NYSMATYC Conference
October 2010
MAT 1475H: Calculus I Honors
Prof. Satyanand Singh
Uniform Convergence of a Sequence of Functions
Omar Allen, Enmanuel Almanzar, Cynthia Alonzo, Stephen Amachee, Amirah Baksh, Karl Garcia, Saimir Hoxha, Joe Laskowski, William Ma, Saeed Mahmood, Juan Mejia, Devanee Ramoo, Frank Salvatierra, Timothy Taylor, Savpreet Walia and Esmond Yuen

Abstract:
We will examine the case: If each term of a sequence of functions is continuous, is the limit function also continuous? We will use the Maple software to illustrate our answer with the aid of appropriate examples.

Domestic Violence Program Development Project
Anna Acevedo
Prof. Shermira Busby
HUS 4803: Resource and Program Development

Multi Drug Resistant Pathogens and Nosocomial Infections in Brooklyn-A SENCER Project
Eliana Alonzo
Prof. Liana Tsenova
BIO 3302: Microbiology

Compare Beowulf to Jesus Christ
Catherine Baah
Prof. Aaron Barlow
ENG 2100: British Literature I

Hurricane Katrina: A Case Study
Hend Bayoumi
Prof. Gerarda Shields
CMCE 2251: Fluid Mechanics

The Season of Lights – Variations in Bits and Pieces
Evita Belmonte
Prof. Elodie Lauten
ENT 1260: Music Technology

Euthanasia: An In-depth Look at Euthanasia
Tiffany Clarke
Prof. Hugh McDonald
PHIL 2203: Health Care Ethics

Exploding Arteries: The Aftermath Aneurysms
Tejinder Dhaliwal
Prof. Niloufar Haque
BIO 2312: Human Anatomy and Physiology I

Digitizing Salvador Dali
Jorge Diez Prada
Prof. Maureen Neuringer
ADV 1260: Digital Imaging

The Nature of Atherosclerosis: Progress, Development and Treatment
Tenzing Dorma
Prof. Niloufar Haque
BIO 2312: Human Anatomy and Physiology II

Health Literacy: What is it? How does it affect our health?
Francine Eisner
Prof. Catherine Winkler McManus
NUR 3010: Physical Assessment

Quantum Physics at Nanoscales
Michal Faryniarz
Prof. Oleg Berman
PHYS 1442: Physics 2.3

The Problem of the Pisa Leaning Tower Equilibrium
Ariam Geffrard
Prof. Vladimir Boyko
PHYS 1433: Physics 1.2

The Delivery of Health Care in America
Mirna Germano
Prof. Albert Angeloro
ENG 1191: English Composition

Java Database Project
Chandradat Gir
Prof. Stephen Weierman
CST 1201: Programming Fundamentals

Measure for Measure in Jacobean England
Samantha Jeffrey
Prof. Sarah Schechter
ENG 3401: Law through Literature
Leadership Roles of Women in the Caribbean
Samantha Jeffrey
Prof. Kelson Maynard
AFR 1467: Afro-Caribbean History

Home Theater Personal Computer
Paul Julien
Prof. Albert De La Cruz
EMT 2370: Computer Hardware Systems

Measure for Measure in Jacobean England
Paul Julien
Prof. Sarah Schechter
ENG 3401: Law through Literature

The Importance of the Taj Mahal in Islamic Art and Architecture
Nosheen Kanwal
Prof. Susan Beningson
ARTH 1110: Islamic Art

Designing for Disaster
George Krikelis
Prof. Illya Azaroff
ARCH 3611: Theoretical Design

Two Interesting Problems from Three Dimensional Geometry
Susan Lema
Prof. Satyanand Singh
MAT 2675: Calculus III

Designing for Disaster
Michael Liu
Prof. Illya Azaroff
ARCH 4880: Space Planning

Designing for Disaster
Ruan Long
Prof. Illya Azaroff
ARCH 3611: Theoretical Design

Elder and the Law
Joy Martinez
Prof. Mary Sue Donsky
LAW 4900: Senior Legal Seminar Capstone

Jacobean History
Joy Martinez
Prof. Sara Schechter
ENG 3401: Law through Literature

Enhancing the Quality of Nickel-Oxide Ink for Printing Solid Oxide Fuel Cell Anodes
Abdul Mateen
Prof. Jay Diner
CHEM 1210: General Chemistry II

The Energy of Graphs
Elizabeth Mills
Prof. Andrew Douglas
MAT 2580: Introduction to Linear Algebra

"King Tamuras Subdues Rebel Divs" from the Shahnama of Shah Tahmasp
Elizabeth Mills
Prof. Susan Beningson
ARTH 1110: Islamic Art

Genetic Predisposition to Cancer
Gessel Morales
Prof. Rachele Arrigoni-Restrepo
BIO1201: Biology II

Designing for Disaster
Hiba Nafe
Prof. Illya Azaroff
ARCH 3511: Architectural Design 5
Retirement Benefit Projection
Moez Ahmed
Prof. Boyan Kostadinov

Gambler’s Ruin, the Kelly’s Criterion in Finance and Applications to Option Trading
Enmanuel Almanzar
Prof. Boyan Kostadinov

The Wolf and the Sorcerer: Transforming the Writing Cure
Stephanie Caraballos
Prof. Robert Leston

Studies on Cellular Factors Involved in Pathogenesis in Infection of Shigella Flexner
Vangie Carrillo
Profs. Majeddu Chowdhury and Dennis Bakewicz

The Binomial Model with Dynamic Programming for Pricing of European and American Options in MATLAB
Thomas Cheung
Prof. Boyan Kostadinov

An In-Depth Look at Euthanasia
Tiffany Clarke
Prof. Hugh McDonald

Imitation, Mirror Neuron and Autism
Shavon Clenkian
Prof. Niloufar Haque

Deriving Information-Optimized Local Potentials for Protein Structure Prediction
Andrea Emmanuel
Prof. Armando Solis

The Localization of Microcavity Polaritons in a Microcavity
Michal Faryniarz
Prof. Oleg Berman

The Standard Model of Particle Physics
Andrey Galper
Profs. Giovanni Ossola and Andrea Ferroglia

Database Development for the Tracking of Intervention Activities of the Black Male Initiative Program
Karl Garcia
Profs. Reginald Blake, Reneta Lansiquot, and Janet Liou-Mark

Chemokines in Atherosclerosis
Erika Green
Prof. Nasreen Haque

Recreating Ecosystems
Emmanuel Gutierrez
Prof. Tatiana Voza

PassivHaus: Approaching a Net-Zero Energy Architecture
Ehsanul Haque
Prof. Kenneth Conzelmann

Applying String Theory to the Quark-Gluon Plasma
Razikul Islam
Prof. Justin Vazquez-Poritz

Secret Sharing
Kwasi James
Prof. Delaram Kahrobaei

Why is Your Spouse So Predictable?
Mirror Neuron System and Self-Expansion Model of Love
Lynn Derika Jean
Prof. Niloufar Haque

Applying String Theory to the Quark-Gluon Plasma
Jose Jimenez
Prof. Justin Vazquez-Poritz

The Energy of Graphs
Tariq Johnson
Prof. Andrew Douglas

Recreating Ecosystems
Christine Kim
Prof. Tatiana Voza

Cultural Neuroscience: Cultural Influences on Brain Function
Jameel Lancaster
Prof. Niloufar Haque

Mathematical Modeling and Simulation of Prescribing Drug Dosage
Lorenzo Lares
Prof. Huseyin Yuce

Investigation on the SRS Cross-talk in WDM Distributed Raman Amplification
Thinh Le
Prof. Lufeng Leng

The Time Evolution of the Exciton and Cavity Photon Condensate Profiles in the Microcavity
Steven Lora
Prof. Oleg Berman

Interactive Iconography: Scaffolding Writing Across Cultures
Anjelin Martinez
Prof. Reneta Lansiquot

Deriving Information-Optimized Local Potentials for Protein Structure Prediction
Sheldon Matthews
Prof. Armando Solis

The Energy of Graphs
Elizabeth Mills
Prof. Andrew Douglas

The Mathematics of Invisibility
Elizabeth Mills
Prof. Boyan Kostadinov

Testing for Prime Numbers Using Calculus
Elizabeth Mills
Prof. Satyanand Singh

The Standard Model of Particle Physics
Vladimir Monpremier
Profs. Giovanni Ossola and Andrea Ferroglia

Analyzing the EPA Greenversations
Ryan Moore
Prof. Justin Davis

Learning through Serving: A Brooklyn-Based Project
Gessel Morales
Profs. Rachele Arrigoni-Restrepo and Maria Ter-Mikaelian
Emerging Scholars Projects

Learning through Serving: A Brooklyn-Based Project
Pablo Mota
Profs. Rachele Arrigoni-Restrepo and Maria Ter-Mikaelian

Representations of Women’s Oppression and the Pathways to Independence in the Bell Jar by Sylvia Plath
Arielle Moxey
Prof. Jody Rosen

The Kinetics of Polariton Condensate in a Microcavity
Ananthakrishnan Nair
Prof. Oleg Berman

The Energy of Graphs
Dennis Nguyen
Prof. Andrew Douglas

The Standard Model of Particle Physics
Etiosa Obasuyi
Profs. Giovanni Ossola and Andrea Ferroglia

Multi Drug Resistant Pathogens and Nosocomial Infections in Brooklyn
Hui Meen Ong
Profs. Liana Tsenova and Arnaz Taraporevala

Microbial Diversity in the Gowanus Canal
Kenneth Paneto
Prof. Nasreen Haque

Learning through Serving: A Brooklyn-Based Project
Michelle Perez
Profs. Rachele Arrigoni-Restrepo and Maria Ter-Mikaelian

The Narrative of Computing
Meleny Perez
Profs. Reneta Lansiquot and Candido Cabo

Investigating the Intersection of Psychology and Religion: A Self-Exploration
Neishalee Perez
Prof. Eric Rodriguez

The Superfluidity of Microcavity Polaritons in High Magnetic Field
David Persico
Prof. Oleg Berman

Learning through Serving: A Brooklyn-Based Project
Anton Peterkin
Profs. Rachele Arrigoni-Restrepo and Maria Ter-Mikaelian

Polariton Condensates at the Different Shapes of Microcavity
Sandy Ponticel
Prof. Oleg Berman

Establishing a Chemistry Laboratory Information System
Hamesh Rafaqat
Prof. Diana Samaroo

Cognitive Appraisals in Coping with Traumatic Events
Olena Romanyshyn
Prof. Pa Her

The Localization of Microcavity Polaritons in a Trap
Clareno Rosias
Prof. Oleg Berman

Stereopsis as a Factor in Three-Dimensional Block Construction
Ruth Ruben
Profs. Daniel Capruso and Kara Pasner

The Influence of the External Trapping Potential on the Polariton Superfluid
Seyedhamidreza Sadatian
Prof. Oleg Berman

Algae, the Possibilities
Diya Sarsour
Prof. Zongmin Li

Matrix Metalloproteinase: Chemical-Biological Functions and QSARs
Ravneet Singh
Prof. Niloufar Haque

Learning through Serving: A Brooklyn-Based Project
Anna Soyfer
Profs. Rachele Arrigoni-Restrepo and Maria Ter-Mikaelian

Cranberry Juice and Grape Juice as Anti-Viral Agents
Dionne Trotman
Profs. Laina Karthikeyan and Steve Lipson (St. Francis College)

Interactive Iconography: Scaffolding Writing Across Cultures
Bernita Wynn
Prof. Reneta Lansiquot

Whether the Weather: City Tech Student and Faculty Writing and Performance
Gracie Xavier
Prof. Sarah Standing

Testing for Prime Numbers Using Calculus
Yi Ming Yu
Prof. Satyanand Singh

Emerging Scholars Projects

Peer Leader Orientation
August 2010
Learning Communities

Theme Based Projects

Organizing Committee:
Prof. Andrew Douglas
Prof. Estela Rojas

A Mathematical and Poetic Exploration of Nature
Prof. Andrew Douglas (Mathematics)
Prof. Andrew Rathmann (English)
Zakiyah Toval, Sabratin Watson, Rukayat Kinoshi, David Gogolashvili, Frantz Gedeon, Xavier Valltierra, Deysun Semple
MAT 1175: Fundamental of Mathematics
ENG 1101: English Composition I

Two Tools - One Job:
Merging Computer Technology and Building Technology
Prof. Paul C. King (Architectural Technology)
ARCH 1200: Architectural Drawing II
ARCH 1290: Architectural CAD

Science in the City
Prof. Jonas Reitz (Mathematics)
Prof. Rachele Arrigoni-Restrepo (Biology)
Prof. William Colucci (Mathematics)
MAT 1175: Fundamentals of Mathematics
BIO 1101: Biology I

The Hospitality Management Learning Community
Prof. Claire Stewart (Hospitality Management)
Prof. Halton Merrill (Hospitality Management)
Prof. Katie Albany (English)
HGMT 1102: Introduction to Food and Beverage Management
HGMT 1101: Perspectives in Hospitality Management
ENG 1101: English Composition I

There and Back Again: Text and Drawing
Prof. Jason Montgomery (Architectural Technology)
Christian Camacho, Emrire Kasapi, Gin Pena, Adam Samulak, Kilton Shehu, and Tiffany Sierra
ARCH 1100: Architectural Drawing I
ARCH 1140: Materials in Architecture

Speaking of Psychology
Prof. Justin Davis (Humanities)
Prof. Eric Rodriguez (Social Science)
Ashley Bailey, Danny Cabrera, Christopher Claro, Rukayat Kinoshi, and Gendaris Tavera.
SPE 1330: Effective Speaking
PSY 1101: Introduction to Psychology

Psychological Themes in Literature
Prof. Regina Lebowitz (English)
Prof. Jean Kubeck (Social Science)
ENG 1101: English Composition I
PSY 1101: Introduction to Psychology

Explorations
Profs. Estela Rojas (Mathematics)
Prof. Giovanni Ossola (Physics)
MAT 1375: Precalculus
PHYS 1433: Physics 1.2

Special Projects

National Science Foundation
Research Experience for Undergraduates
NSF Award Number: ATM-0755686
Prof. Reginald Blake

Validation of NSIDC SWE Data with Ground-Based NCDC Data
Phillip Bacon
CCNY

Precipitation Patterns in Three Regions of Africa
Delroy Wills
CCNY

Automated Software Testing and Deployment Subheading: Graphyte Web Toolkit
Carl Chinatomby
CCNY

Using the SSMT-2 to Analyzed Global Distribution of Upper Troposphere Humidity
Loikel James
City Tech

Lidar Observations to improve Air Quality Forecast Models
Ogheniroro Okrokoto
CCNY

Variability of Cloudiness and Water Vapor Content over the Caribbean Using ISCCP Data
Alma Cabral Reynoso
City Tech

Using Meteorological Data from NOAA Geostationary Satellites to Remove Water Contamination for Earth Satellite Observations
Gary Bouton
CCNY

Satellite Remote Sensing Applications to Study Drought
Gilbert Fahnbulleh
Hunter College

Exploration of Co-varying Oceanic Parameters in Vicinity of Coral Bleaching Events
Gena Israel
Hunter College

Testing an Advection Technique for Short Term Forecasting of Cloud Movement and Life Cycle
Xiaoqian Pan
CCNY
How can a Peer Leader use her leadership role to support students’ learning?
Tisha Brookes

How does the Peer Leader help students’ performance in Workshop by using Tuckman’s stages of group development?
Ting Ka Cheung

How can a Peer Leader use students’ learning styles to help them succeed in Anatomy & Physiology?
Mejeena Constant

Why are the Six Critical Components essential to the success of a Peer-led workshop?
Shel Matthews

In what ways can workshops foster scientific literacy using case-based learning?
Elizabeth Mills

How can a Peer Leader support cooperation among students in a Biology workshop?
Marzana Siddique

How does the storming stage impact learning in an embedded Mathematics workshop?
Sereta Scott

How can the Peer Leader encourage students to be prepared for workshops?
Ya-Ping Zhang

The Peer Assisted Learning Project is supported by the Black Male Initiative, CUNY; Perkins VTEA; and the National Science Foundation STEP Grant # 0622493.
Profs. AE Dreyfuss and Janet Liou-Mark

Independent Study: Peer Leader Training

The Binomial Model with Dynamic Programming for Pricing of European and American Options in MATLAB
Ting Ka Cheung
Prof. Boyan Kostadinov

Asthma: Causes, Prevention, Treatment and Variations in Asthma Rate between Urban and Rural Areas
Chantel Joas
Prof. Niloufar Haque
BIO 2312: Human Anatomy and Physiology II

Alzheimer’s Disease: Not Just the Loss of Memory
Emily Kheluram
Prof. Niloufar Haque
BIO 2312: Human Anatomy and Physiology II

Mapping the Cantor Ternary Set to Higher Dimensions
Elizabeth Mills
Prof. Satyanand Singh

What are Your Risks of Developing Alzheimer’s Disease?
Ximena Morocho
Prof. Niloufar Haque
BIO 2312: Human Anatomy and Physiology II

Antibacterial and Antifungal Effects of the Sauce from Cassaua
Kerensa Ward
Prof. Malik Zulqarnain
BIO 2312L: Human Anatomy and Physiology II

The Marvels of Mathematics: Tricks, Games, and Infinity
Join the City Tech Math Club magicians for a live show as they play games, perform tricks, and reveal hidden infinities. Curiosity is a prerequisite.

Presenters:
Aboubakar Diakite
Steven Lora
Alma Cabral Reynoso
Cesar Rodriguez

Faculty Advisors:
Prof. Victoria Gitman
Prof. Azita Mayeli

Special Presentation

National Society of Collegiate Scholars Induction Ceremony
October 2010

Honors Scholars Orientation
September 2010
Acknowledgements

To all the dedicated professors, thank you for your willingness to impart knowledge and for mentoring our students.

To Ms. Laura Yuen-Lau, Prof. Julia Jordan, Prof. Andrew Douglas, Mr. George Lowe, and Mr. Kiros Haile, a sincere appreciation for all your efforts in making this poster presentation a celebration of our students’ achievements.

To Ms. Elva Hsieh, a special recognition for her artistic program design.