

THE

N119, ATRIUM  
FIRST FLOOR &  
GROUND FLOOR

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# SEMI-ANNUAL HONORS SCHOLARS POSTER PRESENTATION

## HONORS AND EMERGING SCHOLARS

Poster Presentation

## LEARNING COMMUNITIES

Theme-Based Poster Presentation

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**Wednesday, May 8, 2013**

11:00 AM - 4:00 PM

**Thursday, May 9, 2013**

10:00 AM - 3:00 PM

Awards Ceremony at 12:30 PM

**HONORS COURSES**

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**HONORS IN A REGULAR COURSE**

08

**EMERGING SCHOLARS**

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**LEARNING COMMUNITIES  
THEME-BASED PROJECTS**

22

**SPECIAL PROJECTS**

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# AWARDS CEREMONY

May 9, 2013 | N119, 12:30 PM

## GREETINGS

**DR. RUSSELL K. HOTZLER**  
President

**DR. BONNE AUGUST**  
Provost & Vice President  
Academic Affairs

**DR. PAMELA BROWN**  
Associate Provost

## HONORS SCHOLARS RECOGNITION

**BARBARA GRUMET, JD**  
Dean  
School of Professional Studies

**DR. JANET LIU-MARK**  
Director  
Honors Scholars Program

**MS. LAURA YUEN-LAU**  
Coordinator  
Honors Scholars Program

## EMERGING SCHOLARS RECOGNITION

**DR. SELWYN WILLIAMS**  
Director  
Undergraduate Research

## LEARNING COMMUNITY RECOGNITION

**DR. ESTELA ROJAS**  
Director  
Learning Communities

## BEST POSTER AWARDS

**DR. RENETA LANSIQUOT**  
Assistant Director  
Honors Scholars Program



**HONORS SCHOLARS ORIENTATION**  
February 14, 2013

# HONORS COURSES

## LAW 4900H: SENIOR LEGAL SEMINAR HONORS

Prof. Mary Sue Donsky

Mina Abusafe — The “Carthage” Trial (Joseph Smith murder trial)  
Sunnie Aubain — The Charlie Manson Trial  
Danielle Berman — The John Brown Trial  
Mohit Kumar — The Sam Sheppard Trial  
Frantz Michaud — The Amistad Trial  
Jeniele O’Sullivan — The Massie Trials  
Elvis Perez — The Patty Hearst Trial  
Gayle Roberts — The Thaw (White murder) Trial  
Dalaihann Smith — The Lizzie Borden Trial  
Douglas Triglianos — The Al Capone Trial  
Kevin Wu — The John Hinckley, Jr. Trial

**ABSTRACT:** Each student will research one of the most famous trials in American history. They will research primary and secondary authority in order to prepare papers and posters about their trials. They will use the peer review process to raise questions about each other’s trials. Each student will make an oral presentation about their trial.



## BOWLING AT MAPLE LANES

December 20, 2012

## HONORS AND EMERGING SCHOLARS POSTER PRESENTATION

December 5 & 6, 2012



# HONORS IN A REGULAR COURSE

## THE OBAMACARE

Mina Abusafe  
Prof. Marco Castillo  
**GOV 2014:** American Constitutional Law

## THE HARLEM RENAISSANCE

Abraham Aviles  
Prof. Anna Krauthammer  
**ENG 1121:** English Composition II

## LEARNING SCIENCE IN VIRTUAL WORLDS

Gabrielle Bartomeo  
Prof. Reneta Lansiquot  
**ENG 1773:** Weird Science: Interpreting and Redefining Humanity

## METAL VS. PORCELAIN RESTORATIONS

Man Chun Chan  
Prof. Renata Budny  
**RESD 1212:** Fixed Prosthodontics II

## MIDDLEGROUND:

### DEVELOPING A WEB SERVICE WITH SPRING AND HIBERNATE

Maciej Citowicki  
Prof. Eric Sabbah  
**CST 4713:** Web Application Development in Java

### EXPLORING THE GOOD AND EVIL OF SOCIAL PSYCHOLOGICAL BEHAVIOR USING EYE TRACKING TECHNOLOGY

Christian Sebastien F. Dalencourt  
Prof. Howard Sisco  
**PSY 2401:** Social Psychology

## OPTIMIZATION PROBLEMS IN COMPUTING

Abdoulaye Diallo  
Prof. Ezra Halleck  
**MAT 1475:** Calculus I

## BAR ATTACHMENT SYSTEMS

Yamilka Feliz  
Prof. Renata Budny  
**RESD 1212:** Fixed Prosthodontics II

## DID SOCIAL ATTITUDES EVOLVE?

Felicia Francis  
Prof. Michael Siegel  
**MAT 1272:** Statistics

## ANALYSIS OF BIO-DIVERSITY OF HUDSON RIVER

Zaw Myo Hein  
Prof. Urmi Ghosh-Dastidar  
**MAT 2580:** Linear Algebra

## FACADES, ADAPTIVE COMPONENTS AND ASSEMBLIES

Sergiy Humenyuk  
Prof. Alexander Aptekar  
**ARCH 2430:** Building Technology IV

## THE OBAMACARE

Mohit Kumar  
Prof. Marco Castillo  
**GOV 2401:** American Constitutional Law

## MINIMUM WAGE:

### YESTERDAY, TODAY AND TOMORROW

Pablo Lara  
Prof. Randall Hannum  
**ECON 1101:** Macroeconomics

## SPORTS ENTERTAINMENT AND THE LAW

DialloRafik Madison  
Prof. Jerome Greenberg  
**LAW 3543:** Sports and Entertainment Law

## WHY IS THERE NO EFFECTIVE VACCINE AGAINST HIV?

Christie Magloire  
Prof. Andleeb Zameer  
**BIO 1201:** Biology II

## THE ART OF SHADE MATCHING AND STAINING PORCELAIN FUSED TO METAL DENTAL RESTORATIONS

Gale D. Matthews  
Prof. Daniel Alter  
**RESD 2414:** Restorative Dental Ceramics Practicum

## THE CULTURAL AFTERMATH OF WORLD WAR I

MD Mofidul Hossain Mia  
Prof. Mark Noonan  
**ENG 3402:** Progressive Voices

## IMPORTANCE OF ARABIC LANGUAGE

Taj Nahar  
Prof. Sadek Boumahchad  
**ARB 1101:** Elementary Arabic I

**TOOTH BRUSHING-BEFORE OR AFTER EATING**

Jodie Nathan  
Prof. Susan Davide  
**DEN 1200:** Principles of Dental Hygiene Care II

**IMPORTANCE OF ARABIC LANGUAGE**

Niki Patel  
Prof. Sadek Boumahchad  
**ARB 1101:** Elementary Arabic I

**NEW YORK DOMINICANS AND THE SPANGLISH IMPACT**

Glenylis Pineda  
Prof. Laura Hapke  
**ENG 1121:** English Composition II

**MIDDLEGROUND: DEVELOPING A WEB SERVICE WITH SPRING AND HIBERNATE**

Stanislav Podolski  
Prof. Eric Sabbah  
**CST 4713:** Web Application Development in Java

**DOUBLE RAINBOW: WHAT DOES IT MEAN?**

Dominick Prince  
Prof. Ezra Halleck  
**MAT 1475:** Calculus I

**ANALYSIS OF THE BACTERIAL RESPONSE TO DIFFERENT ANTIMICROBIALS/ANTIBIOTIC PRODUCTS AFTER EXPOSURE TO SUB-LETHAL CONCENTRATIONS**

Sumaiya Raiyan  
Prof. Marie Montes-Matias  
**BIO 3302:** Microbiology I

**ARCHITECTURAL SUSTAINABLE DESIGN APPROACH: THE TOPOGRAPHY OF COMMUNITIES**

Margarita Salas  
Prof. William Valdez  
**ARCH 1210:** Design Foundation II

**UNFAIR HOUSING PRACTICES: THE UNDOCUMENTED WORKER'S PLIGHT**

Tamir Smart  
Prof. Andre Applewhite  
**LAW 2304:** Legal Research II

**BREATHABLE INSULATION FROM RECYCLABLE MATERIALS**

Valentina Stanovova  
Prof. Paul King  
**ARCH 3691:** Advanced Design and Building Information

**BIOMECHANICS, ANATOMY AND COMMON INJURIES, TREATMENTS OF THE ROTATOR CUFF**

Eric Tal  
Prof. Oluwakemi Kadiri  
**BIO 2312:** Human Anatomy and Physiology II

**DRUG EFFECT IN THE SYSTEM OF COUPLED QUANTUM WELLS**

Armando Xhimanki  
Prof. Oleg Berman  
**PHYS 1442:** Physics 2.3

**THE OBAMACARE**

Wai Yee Yeung  
Prof. Marco Castillo  
**GOV 2014:** American Constitutional Law

**PEER LEADERS**  
Spring 2013



# EMERGING SCHOLARS

## **ARDUINO MICROCONTROLLER/ROBOTICS PROGRAMMING AND MATLAB, "OPEN SOURCE" PROGRAMMING EQUIVALENTS**

Joe Nathan Abellard  
Prof. Edward Morton

## **SOLAR DECATHLON: GREEN TECHNIQUES ASSEMBLIES AND LIVING IN NEW YORK CITY**

Victor Agard  
Profs. Alexander Aptekar & Paul King

## **WRITING ABOUT ARCHITECTURE**

Tasnuva Ahmed  
Profs. Alexander Aptekar & Paul King

## **CLOSING THE LOOP: COMPLETING THE DESIGN/ ANALYSIS>FABRICATION>VALIDATION CYCLE**

Rene Alcon  
Profs. Alexander Aptekar, Zach Downey, Anne Leonhardt,  
Brian Ringley & Sanjive Vaidya

## **A GRAPH REACH ABILITY TOOL IMPLEMENTATION**

Smail Ali  
Prof. Katia Hristova

## **CLOSING THE LOOP: COMPLETING THE DESIGN/ ANALYSIS>FABRICATION>VALIDATION CYCLE**

Cindy Alonzo  
Profs. Alexander Aptekar, Zach Downey, Anne Leonhardt,  
Brian Ringley & Sanjive Vaidya

## **CLOSING THE LOOP: COMPLETING THE DESIGN/ ANALYSIS>FABRICATION>VALIDATION CYCLE**

Cynthia Alonzo  
Profs. Alexander Aptekar, Zach Downey, Anne Leonhardt,  
Brian Ringley & Sanjive Vaidya

## **SOLAR DECATHLON: GREEN TECHNIQUES ASSEMBLIES AND LIVING IN NEW YORK CITY**

Mario Alulema  
Profs. Alexander Aptekar & Paul King

## **PARTITIONS OF INTEGERS AND THEIR APPLICATIONS**

MD Arefin  
Prof. Corina Calinescu

## **ANALYSIS OF THE EFFECTS OF EXPOSURE TO TRICLOSAN ON ANTIBIOTIC SUSCEPTIBILITY OF BACTERIA**

Artemis Artoun  
Prof. Davida Smyth

## **HORIZONTAL VIOLENCE/BULLYING: STATE OF THE SCIENCE AND WORKSHOP**

Lizeth Baudin  
Profs. Elaine Leinung & Aida Egues

## **SOLAR DECATHLON: GREEN TECHNIQUES ASSEMBLIES AND LIVING IN NEW YORK CITY**

Jose Bello  
Profs. Alexander Aptekar & Paul King

## **HORIZONTAL VIOLENCE/BULLYING: STATE OF THE SCIENCE AND WORKSHOP**

Samantha Blair  
Profs. Elaine Leinung & Aida Egues

## **PROTEIN CANCER MARKERS: TARGET SELECTION FOR SINGLE MOLECULE WHISPERING GALLERY MODE BIOSENSOR DEVELOPMENT**

Joseph Blanco  
Prof. Vasilij Kolchenko

## **CREATING ART AND CREATING COMMUNITIES: THE ROLE OF ARTISTS IN THE GENTRIFICATION OF A BROOKLYN COMMUNITY**

Leah Ruth Braithwaite  
Prof. Lisa Pope-Fischer

## **DISASTER RECOVERY AND RESILIENT DESIGN IN CONEY ISLAND**

Osmany Cabrera  
Prof. Paul King

## **ONE-TO-ONE 3D PRINTING**

William Calderon  
Prof. Robert Cervellione

## **NEW DESIGN OF ENERGY STORAGE SYSTEM USING A FLYWHEEL**

Maureen Cauthen  
Prof. Masato Nakamura

**DIFFERENT WAYS OF SHOWING A DETAIL**

Genaro Cobar  
Prof. Jill Bouratoglou

**CHRONICLING THE ACHIEVEMENTS AND ACTIVITIES OF HONORS SCHOLARS AT CITY TECH**

Tamrah Cunningham  
Prof. Reneta Lansiquot

**EFFECT OF GARLIC, ONION, POMEGRANATE ON TETRAHYMENA THERMOPHILA SURVIVAL**

Christian F. Sebastien Dalencourt  
Prof. Ralph Alcendor

**SOLAR DECATHLON: GREEN TECHNIQUES ASSEMBLIES AND LIVING IN NEW YORK CITY**

Geury De La Cruz  
Prof. Alexander Aptekar & Paul King

**HYDRO-SUSTAINABILITY IN COLUMBUS PARK**

Luiza De Souza  
Prof. Paul King

**INTEGRATED MODELING OF SOLID WASTE MIXING WITH PARTICLE SIZE DISTRIBUTION**

Florin Diaconu  
Prof. Masato Nakamura

**FLAVONOIDS: DIETARY SOURCES AND ANTI-ALZHEIMER'S DISEASE PROPERTIES**

Mamadou Diallo  
Prof. Alberto Martinez

**SOLAR DECATHLON: GREEN TECHNIQUES ASSEMBLIES AND LIVING IN NEW YORK CITY**

Michael DiCarlo  
Prof. Alexander Aptekar & Paul King

**ONE-TO-ONE 3D PRINTING**

Maksim Drapey  
Prof. Robert Cervellione

**CLOSING THE LOOP: COMPLETING THE DESIGN/ ANALYSIS>FABRICATION>VALIDATION CYCLE**

Gareth Enahoro  
Prof. Alexander Aptekar, Zach Downey, Anne Leonhardt, Brian Ringley & Sanjive Vaidya

**DOUBLE JEOPARDY AND GLASS CEILINGS AS A MANIFESTATION OF GENDER AND RACIAL DISCRIMINATION**

Oluwatoni Esinsinade  
Prof. Costas Panayotakis

**UV BIOMETERS USED IN THE CALCULATION OF COEFFICIENTS AND INTERCOMPARISON WITH OTHER SUN PHOTOMETERS**

Stephen Flemming  
Prof. Viviana Vladutescu

**PROTEIN CANCER MARKERS: TARGET SELECTION FOR SINGLE MOLECULE WHISPERING GALLERY MODE BIOSENSOR DEVELOPMENT**

Maria Fonseca  
Prof. Vasily Kolchenko

**ROLE OF PATHOGENIC AND PHYSIOLOGICAL AUTO ANTIBODIES AGAINST CENTRAL NERVOUS SYSTEM ANTIGENS**

Unalissa Fresco  
Prof. Andleeb Zameer

**INVESTIGATING WATER QUALITY**

Roger Galeano  
Prof. Diana Samaroo

**ONE-TO-ONE 3D PRINTING**

Andrea Garrido  
Prof. Robert Cervellione

**SOLAR DECATHLON: GREEN TECHNIQUES ASSEMBLIES AND LIVING IN NEW YORK CITY**

Meisha Guild  
Prof. Alexander Aptekar & Paul King

**ANALYSIS OF BIODIVERSITY OF THE HUDSON RIVER**

Zaw Myo Hein  
Prof. Urmi Ghosh-Dastidar

**DETERMINING SUCCESS AFTER COLLEGE FOR COMPUTER SYSTEMS TECHNOLOGY STUDENTS**

Annique Henriques  
Prof. Eric Rodriguez

**DISASTER RECOVERY AND RESILIENT DESIGN IN CONEY ISLAND**

Jonathan Hernandez  
Prof. Paul King

**E-LEARNING AS IT RELATES TO STUDENTS, EDUCATORS AND JOB OPPORTUNITIES IN THE HOSPITALITY INDUSTRY**

Lauren Hunnewell  
Prof. Patrick O'Halloran

**HIGH PERFORMANCE BUILDING ENVELOPES**

Edmund Huong  
Prof. Michael Duddy

**THE ENERGY OF GRAPHS**

Adam Ibrahim  
Prof. Andrew Douglas & Thomas Tradler

**EFFECT OF GARLIC, ONION, POMEGRANATE ON TETRAHYMENA THERMOPHILA SURVIVAL**

Saba Jaleel  
Prof. Ralph Alcendor

**DISASTER RECOVERY AND RESILIENT DESIGN IN CONEY ISLAND**

Raymond Jimenez  
Prof. Paul King

**DOMESTIC VIOLENCE AND THE IMPACT ON AFRICAN AMERICAN WOMEN: A BRIEF OVERVIEW ON RACE, CLASS AND ROOT CAUSES**

Natalie Jones

Prof. Christine Thorpe

**LEGAL IMPLICATIONS OF AMERICAN SIGN LANGUAGE**

Andrei Kaineyeu

Prof. Marissa Moran

**THE CHEMISTRY OF FOOD: INVESTIGATING THE ANTI-ALZHEIMER'S DISEASE PROPERTIES OF RESVERATROL**

Harpreet Kaur

Prof. Alberto Martinez

**SOLAR DECATHLON: GREEN TECHNIQUES ASSEMBLIES AND LIVING IN NEW YORK CITY**

Hochul Kim

Profs. Alexander Aptekar & Paul King

**ATOMIC FORCE MICROSCOPY STUDIES OF HYBRID GRAPHENE AND METAL OXIDE MATERIALS**

Adrian Klusek

Profs. L. Jay Deiner & Diana Samaroo

**UV BIOMETERS USED IN THE CALCULATION OF COEFFICIENTS AND INTERCOMPARISON WITH OTHER SUN PHOTOMETERS**

Gerti Kulla

Prof. Viviana Vladutescu

**ADAPTING TRADITIONAL JAPANESE ARCHITECTURE TO CONTEMPORARY DESIGN**

Brian Lall

Prof. Esteban Beita Solano

**GETTING YOUR SNACKS WITH A SIDE OF E. COLI; WHY YOU SHOULD ALWAYS WASH YOUR HANDS**

Manhin Lam

Prof. Davida Smyth

**SOLAR DECATHLON: GREEN TECHNIQUES ASSEMBLIES AND LIVING IN NEW YORK CITY**

Stephonie Leonard

Profs. Alexander Aptekar & Paul King

**WHY IS THERE NO EFFECTIVE VACCINE AGAINST HIV?**

Christie Magloire

Prof. Andleeb Zameer

**CHRONICLING THE ACHIEVEMENTS AND ACTIVITIES OF HONORS SCHOLARS AT CITY TECH**

Mandy Mei

Prof. Reneta Lansiquot

**SOLAR DECATHLON: GREEN TECHNIQUES ASSEMBLIES AND LIVING IN NEW YORK CITY**

Chantal Manning

Profs. Alexander Aptekar & Paul King

**ADAPTING TRADITIONAL JAPANESE ARCHITECTURE TO CONTEMPORARY DESIGN**

Ana Matthews

Prof. Esteban Beita Solano

**DISASTER RECOVERY AND RESILIENT DESIGN IN CONEY ISLAND**

Zachary McSween

Prof. Paul King

**SOLAR DECATHLON: GREEN TECHNIQUES ASSEMBLIES AND LIVING IN NEW YORK CITY**

Evgenia Melnikova

Profs. Alexander Aptekar & Paul King

**CHRONICLING THE ACHIEVEMENTS AND ACTIVITIES OF HONORS SCHOLARS AT CITY TECH**

Khoreece Mendoza

Prof. Reneta Lansiquot

**THE CULTURAL AFTERMATH OF WORLD WAR I**

MD Mofidul HR Mia

Prof. Mark Noonan

**PHOTODYNAMIC THERAPY: A NEW HOPE TO TREAT METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS?**

Tiffini Miller

Prof. Zongmin Li

**EFFECT OF GARLIC, ONION, POMEGRANATE ON TETRAHYMENA THERMOPHILA SURVIVAL**

Samar Mohsen

Prof. Ralph Alcendor

**CLOSING THE LOOP: COMPLETING THE DESIGN/ ANALYSIS>FABRICATION>VALIDATION CYCLE**

Rony Mora

Profs. Alexander Aptekar, Zach Downey, Anne Leonhardt, Brian Ringley & Sanjive Vaidya

**SOLAR DECATHLON: GREEN TECHNIQUES ASSEMBLIES AND LIVING IN NEW YORK CITY**

Chen MuJun

Profs. Alexander Aptekar & Paul King

**NUMERICAL ANALYSIS OF SIZE AND SHAPE DISTRIBUTIONS OF SHREDDED MUNICIPAL SOLID WASTE**

Kazi Naznin

Prof. Masato Nakamura

**BACK FROM THE DEAD: AN EIDOPHUSIKON FOR RICHARD III**

Irina Nechaeva

Prof. Christopher Swift

**ADAPTING TRADITIONAL JAPANESE ARCHITECTURE TO CONTEMPORARY DESIGN**

Loyra Nunez

Prof. Esteban Beita Solano

**DATA MINING OF REMOTELY SENSED INFORMATION FOR ENVIRONMENTAL, EARTH AND CLIMATE STUDIES**

Patrick O’Gara  
Prof. Hamidreza Norouzi

**HORIZONTAL VIOLENCE/BULLYING: STATE OF THE SCIENCE & WORKSHOP**

Oluyinka Oluwashola  
Profs. Elaine Leinung & Aida Egues

**LIQUID MATERIALS WITH RECYCLED CONTENT**

Patricia Paredes  
Prof. Alexander Aptekar

**SOLAR DECATHLON: GREEN TECHNIQUES ASSEMBLIES AND LIVING IN NEW YORK CITY**

Edwin Pena  
Profs. Alexander Aptekar & Paul King

**VERSATILE DRUG DELIVERY PORPHYRIN COMPOUNDS IN CANCER THERAPY**

Evelyn Perez  
Prof. Diana Samaroo

**ONE-TO-ONE 3D PRINTING**

Cody Allen Pfleging  
Prof. Robert Cervellione

**CHRONICLING THE ACHIEVEMENTS AND ACTIVITIES OF HONORS SCHOLARS AT CITY TECH**

Walter Rada  
Prof. Reneta Lansiquot

**ANALYSIS OF THE BACTERIAL RESPONSE TO DIFFERENT ANTIMICROBIALS/ANTIBIOTIC AFTER EXPOSURE TO SUB-LETHAL CONDITIONS**

Sumaiya Raiyan  
Prof. Marie Montes-Matias

**ADAPTING TRADITIONAL JAPANESE ARCHITECTURE TO CONTEMPORARY DESIGN**

Erick Ramirez-Miranda  
Prof. Esteban Beita Solano

**EFFECT OF GARLIC, ONION, POMEGRANATE ON TETRAHYMENA THERMOPHILA SURVIVAL**

Jose Rivera  
Prof. Ralph Alcendor

**SOLAR DECATHLON: GREEN TECHNIQUES ASSEMBLIES AND LIVING IN NEW YORK CITY**

Jason Robinson  
Profs. Alexander Aptekar & Paul King

**DISASTER RECOVERY AND RESILIENT DESIGN IN CONEY ISLAND**

Jefchy Rojas  
Prof. Paul King

**FINITE AND INFINITE DIMENSIONAL SPACES**

Rinaldi Romulus  
Profs. Holly Carley & Lin Zhou

**TO BE OR WHAT TO BE**

Noah Ruede  
Prof. Adrienne Wortzel

**CONNECTING STUDENTS WITH PROFESSIONALS AROUND THE WORLD**

Toar Sadia  
Profs. Jill Bouratoglou & Lia Dikigoropoulou

**DISASTER RECOVERY AND RESILIENT DESIGN IN CONEY ISLAND**

Mehran Sadiq  
Prof. Paul King

**ANALYSIS OF BIODIVERSITY OF THE HUDSON RIVER**

Joseph Saldarriaga  
Prof. Urmi Ghosh-Dastidar

**DISASTER RECOVERY AND RESILIENT DESIGN IN CONEY ISLAND**

Adam Samih  
Prof. Paul King

**DISASTER RECOVERY AND RESILIENT DESIGN IN CONEY ISLAND**

Zakarya Samih  
Prof. Paul King

**CONNECTING STUDENTS WITH PROFESSIONALS AROUND THE WORLD**

Christina Segovia  
Profs. Jill Bouratoglou & Lia Dikigoropoulou

**REMOTE MAPPING OF A ROBOTIC EXPLORER’S ENVIRONMENT**

Usman Sethy  
Prof. Farrukh Zia

**MATHEMATICAL MODELING FOR PREDICTING GENERATION OF NEW YORK CITY MUNICIPAL SOLID WASTE (NYCMSW)**

Abraham Setiawan  
Prof. Masato Nakamura

**EFFECT OF GARLIC, ONION, POMEGRANATE ON TETRAHYMENA THERMOPHILA SURVIVAL**

Nada Shedid  
Prof. Ralph Alcendor

**SOLAR DECATHLON: GREEN TECHNIQUES ASSEMBLIES AND LIVING IN NEW YORK CITY**

Valentina Stanovova  
Profs. Alexander Aptekar & Paul King

**CLOSING THE LOOP: COMPLETING THE DESIGN/ ANALYSIS>FABRICATION>VALIDATION CYCLE**

Maciej Stelmach  
Profs. Alexander Aptekar, Zach Downey, Anne Leonhardt, Brian Ringley & Sanjive Vaidya

**THE EFFECTS OF POSITIVE REFRAMING ON EMOTIONAL STRESS AND WELL-BEING**

Eleanor Strehl  
Profs. Jean Kubeck & Pa Her

**DESIGN OF NUTRIENT DELIVERY NETWORKS IN TISSUE CONSTRUCTS**

Issoufou Sylla  
Prof. Ozlem Yasar

**BUILDING A NETWORK INFRASTRUCTURE USING VIRTUALIZATION TECHNOLOGY**

William Tittmann  
Prof. Ossama Elhadary

**RENEWABLE ENERGY'S PROSPECTS FOR PROMOTING ECONOMIC RECOVERY AND GROWTH**

Dennis Trotter Jr.  
Prof. Sean MacDonald

**WHAT HAPPENS WHEN YOU HIT "ENTER"? PRESENCE OF MRSA ON COMPUTER KEYBOARDS?**

Wing Pan Kenny Tsang  
Prof. Davida Smyth

**DISASTER RECOVERY AND RESILIENT DESIGN IN CONEY ISLAND**

Erika Tubbs  
Prof. Paul King

**SOLAR DECATHLON: GREEN TECHNIQUES ASSEMBLIES AND LIVING IN NEW YORK CITY**

Elena Tugusheva  
Profs. Alexander Aptekar & Paul King

**INVESTIGATING BUYING AND SELLING TRENDS IN ONLINE AUCTIONS**

Savpreet Walia  
Prof. Ossama Elhadary

**ORDER AMIDST THE CHAOS: EXPLORING JULIA SETS AND THE MANDELBROT SET**

Mariama Wilson  
Prof. Victoria Gitman

**DRAG EFFECT IN THE SYSTEM OF OCCUPIED QUANTUM WELLS**

Armando Xhimanki  
Profs. Oleg Berman & Ilya Grigorenko

**THE PROBABILISTIC METHOD AND RAMSEY THEORY**

YiMing Yu  
Prof. Satyanand Singh

**CLOSING THE LOOP: COMPLETING THE DESIGN/ ANALYSIS>FABRICATION>VALIDATION CYCLE**

Yuliya Zavolunova  
Profs. Alexander Aptekar, Zach Downey, Anne Leonhardt, Brian Ringley & Sanjive Vaidya

**THE CALCULUS OF AMPLITUDE MODULATION IN RADIO RECEIVERS**

Suhua Zeng  
Prof. Satyanand Singh

**WRITING ABSTRACTS FOR RESEARCH PROJECTS**

WAC Writing Fellows | February 28, 2013



# LEARNING COMMUNITIES THEME-BASED PROJECTS

## SO...WHAT? USING CAUSE AND EFFECT TO UNDERSTAND ELEMENTS OF MATH AND GRAMMAR

Ousmane Bah, Luis Carvajal, Hamsa Dirir, Abrar Jaber,  
Woodly Lincifort, Martin Marte, Kelsy Matthew, Andrew  
Paul, Marcel Roman, Theodore Sewell, Bikramjit Singh,  
Sage Stoney, Tejhmar Sunda, Kelsey Tiamfook

Profs: Holly Carley and Jennifer Sears

**MAT1175:** Fundamentals of Mathematics  
**ENG 1101:** English Composition I



**MUSEUM OF AMERICAN FINANCE**  
February 28, 2013

**CULTIVATING FINE DINING ETIQUETTE**  
Prof. Karen Goodlad | March 12, 2013



# SPECIAL PROJECTS

## RESEARCH AND DEVELOPMENT OF A MOBILE APPLICATION

Walter Rada  
Prof. Marcos Pinto

## THE IMPORTANCE OF THE MOTHERBOARD AND CPU IN A COMPUTER SYSTEM

Hector Feliz, Mamun Hasan, Montgomery Hatch  
Prof. Harrison Carranza  
CST1215: Operating Systems Fundamentals

## CLOUD COMPUTING: A NEW WORLD OF TECHNOLOGY FOR EDUCATION AND BUSINESSES

Kyron De la Rosa, George Henriquez, Jason Jamna  
Prof. Harrison Carranza  
CST1215: Operating Systems Fundamentals

## CET STUDENT ADVISEMENT SYSTEM IMPLEMENTATION USING THE WEB SERVER STACK LAMP

Mikhail Persaud  
Prof. Aparicio Carranza  
CET4982: Special Project Technology

## SURVEY OF INFORMATION THEORY AND PROBABILITY CONNECTED TO CRYPTOGRAPHIC SCHEMES

Rahman Bakare  
Prof. Aparicio Carranza  
CET4982: Special Project Technology

## SIMPLE SEARCH ENGINE IMPLEMENTATION USING THE WEB SERVER STACK WAMP

Ernst Tranquille  
Prof. Aparicio Carranza  
CET4982: Special Project Technology

## SURVEY OF NEW SECURITY THREATS FOR COMPUTER NETWORK USERS

Aziz Matoug  
Prof. Aparicio Carranza  
CET4982: Special Project Technology

## ADVANCING LIBRARY RESEARCH TECHNIQUES

Prof. Maura Smale | February 28, 2013



**A LIVING LABORATORY: REVITALIZING GENERAL EDUCATION FOR A 21ST-CENTURY COLLEGE OF TECHNOLOGY**

U.S. Department of Education Title V program  
#P031S100159

**OPENLAB STUDENT COMMUNITY TEAM**

Shawn Brumell, Ruchoma Kaganoff, Zam Mozumder, Patricia Persaud, Amber Vinson

**ADVISORS:** Charlie Edwards, Scott Henkle, Andrew McKinney, and Jody Rosen

**OPENLAB INFORMATION DESIGN INTERNSHIP WITH EARLY-ADOPTER**

Juan Vargas

**ADVISORS:** Jenna Spevack and Jay Van Buren

**NSF LOUIS STOKES ALLIANCE FOR MINORITY PARTICIPATION (LSAMP) PROGRAM**

**PROGRAM COORDINATOR:** Ms. Jodi-Ann Young

**MEINA OF ALNEL: EXPLORING THE EFFECTS OF NARRATIVE-FOCUSED PROGRAMMING ON ROLE PLAYING GAME DEVELOPMENT**

Tamrah Cunningham  
Prof. Reneta Lansiquot

**DEVELOPING A NYC MTA TRIP PLANNER APP TO WORK WITH WINDOWS PHONE 8, WINDOWS 8 AND WINDOWS RT**

Odefe Enabulele  
Prof. Jose Reyes Alamo

**MICROMECHANICAL EXPERIMENTAL AND ANALYTICAL INVESTIGATIONS OF THE PERMEABILITY OF THE CEMENTLINE OF A SINGLE OSTEON**

Justen Garner  
Prof. Gaffar Gailani

**RESEARCH EXPERIENCES FOR UNDERGRADUATES IN SATELLITE AND GROUND-BASED REMOTE SENSING AT NOAA-CREST 2**

NSF REU Grant # AGS-1062934  
Profs. Reginald Blake and Janet Liou-Mark

**TEMPORAL & SPATIAL DISTRIBUTION OF EXTREME HEAT EVENT IN NYC METRO-AREA**

Mohammed Alvi  
Dr. Jorge Gonzalez

**TEMPORAL AND SPATIAL VARIABILITY IN THE OCEAN COLOR DATA OF THE LONG ISLAND SOUND REGION**

Robert Bararwandika  
Dr. Samir Ahmed



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Spring 2013

### **PERMAFROST AND CLIMATE CHANGE**

Sikha Basnet  
Dr. William B. Rossow

### **GRAPHYTE AND AURUM: LEARNING MODULES FOR REMOTE SENSING CLASSIFICATIONS**

Luis Bello  
Dr. Irena Gladkova

### **SPECTRAL ANALYSIS OF SOIL MOISTURE TIME SERIES FROM THE NOAA-CREST OBSERVATION SITE IN MILLBROOK, NY**

Amelise Bonhomme  
Dr. Nir Krakauer

### **PROCESSING AND ANALYSIS OF SNOWPACK, METEOROLOGICAL, AND MICROWAVE REMOTE SENSING DATA**

Christopher Chan  
Dr. Tarendra Lakhankar

### **FLOW BEHAVIORS UNDER SURFACE SHEAR AND VELOCITY CONDITIONS**

Rifat Hussain  
Dr. Hangsong Tang

### **WATER RESOURCES, WEATHER EXTREMES, SUSTAINABILITY, AND CLIMATE CHANGE EFFECTS ON WATER RESOURCES**

Milica Jevtic  
Dr. Charles Vörösmarty

### **DOWNSCALING OF SMOS DATA USING NDVI, ELEVATION, AND SAND FRACTION**

Juan Mejia  
Dr. Tarendra Lakhankar

### **CREATING AND SUSTAINING DIVERSITY IN THE GEO-SCIENCES AMONG STUDENTS AND TEACHERS IN THE URBAN COASTAL ENVIRONMENT OF NEW YORK CITY**

NSF ODEG Grant #1108281

**PHYS 1112:** Principles of Science II  
Prof. Reginald Blake

### **CLIMATE CHANGE IMPACTS ON WATER RESOURCES**

David Anderson, Jia Ling He, Min Jee Lee, Nicole Ponce, David Rohee, Jose Tejada, and Aphique Woods-Joseph

### **CLIMATE CHANGE IMPACTS ON HEALTH**

Lisa Ali, Anzhelika Masheyeva, Maurico Moreno, Sunil Ragoonath, Catherine Sosa, and Jian Quan Tan

### **CLIMATE CHANGE IMPACTS ON ENERGY**

Saira Bhutta, Steven Ciorciari, Tommy Hua, Shatoya Jackson, Steve Nurse, Jorge Ordonez, Ifetolani Oyedepo Omooye, Lukasz Pypec, and Raphael Velasquez

### **NEW YORK CITY RESEARCH INITIATIVE (NSF OEDG) USING NEURAL NETWORK TECHNIQUES TO PREDICT SURFACE PM2.5 LEVELS FROM OPTICAL AND METEOROLOGICAL DATA**

Nkosi Alleyne, Michael Hirschberger, Gary Bouton, Lina Cordero, & Mr. Christopher Widi (City Poly High School)  
**MENTOR:** Prof. Barry Gross

### **NEW YORK CITY RESEARCH INITIATIVE (NSF OEDG)**

Image Compression and Image Processing  
Alyssa Taylor, Maurice Evans, & Mr. Noam Pillischer (Urban Assembly Institute of Math and Science for Young Women)  
**MENTOR:** Prof. Tanvir Prince

### **MEDU 2901: PEER LEADER TRAINING IN MATHEMATICS**

MAA Tensor Foundation Women and Mathematics Grant and the Black Male Initiative  
Dr. AE Dreyfuss

### **WHAT TECHNIQUES CAN THE PEER LEADER USE TO SUPPORT STUDENTS' LEARNING IN WORKSHOP?**

Frederic Anglade

### **HOW CAN THE WORKSHOP SETTING SUPPORT FEMALE STUDENTS TO PERSEVERE IN A COLLEGE ALGEBRA AND TRIGONOMETRY COURSE?**

Yanira Garcia

### **WHAT STRATEGIES CAN BE INCORPORATED IN A STATICS I WORKSHOP THAT LESSEN STUDENTS' DEPENDENCE ON THE PEER LEADER?**

Chad Joseph

### **WHAT IS THE ROLE OF THE PEER LEADER IN HELPING STUDENTS DEVELOP PERSEVERANCE IN A STATICS I WORKSHOP?**

Carolina Mata

### **HOW DOES THE PEER LEADER'S LEARNING BENEFIT FROM LEADING A WORKSHOP IN COLLEGE ALGEBRA AND TRIGONOMETRY COURSE?**

Renautha Rose

### **HOW CAN THE PEER LEADER INVOLVE FEMALE STUDENTS IN A STATICS I WORKSHOP?**

Khalil Rouchdy

### **HOW DOES THE PEER LEADER RESPOND TO VARIOUS LEARNING STYLES IN AN INTERMEDIATE ALGEBRA AND GEOMETRY WORKSHOP?**

Awolou Sossa

### **HOW DOES THE PEER LEADER HELP STUDENTS TO MOTIVATE THEMSELVES TO LEARN ALGEBRA AND GEOMETRY?**

Stan Shur

**HOW CAN WORKING IN GROUPS HELP STUDENTS TO PERFORM BETTER IN AN ALGEBRA AND GEOMETRY COURSE?**

Sonya Sultana

**HOW DOES THE GROUP MOVE TO THE PERFORMING STAGE IN A PROBABILITY WORKSHOP?**

Yi Ming Yu



**DEVELOPING AND DELIVERING EFFECTIVE RESEARCH PRESENTATIONS**

Profs. Jody Rosen and Justin Davis | March 21, 2013



**CAPSTONE WORKSHOP**

Dr. AE Dreyfuss | April 2, 2013



**DESIGNING RESEARCH POSTER PRESENTATIONS**

Prof. Cinda Scott | April 18, 2013

# ACKNOWLEDGEMENTS

To the dedicated professors for mentoring students.

And a heartfelt thank you for your work “behind the scenes” to make this event a successful one:

Associate Provost Pamela Brown  
Dean Barbara Grumet  
Interim Dean Karl Botchway  
Dean Kevin Hom  
Prof. Julia Jordan  
Ms. Lauri Shemaria-Aguirre  
Dr. AE Dreyfuss  
Ms. Jodi-Ann Young  
Ms. Laura Yuen-Lau  
Mr. David Turkiew  
Mr. George Lowe  
Mr. Teddy Adolphe  
Mr. Jeff Novak  
Mr. Lubosh Stepanek  
Ms. Mursheda Ahmed  
Ms. Milica Jevtic  
Ms. Karmen Yu  
Mr. Guannain Zeng

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A special thank you to the professors who served as judges for the poster competition:

Ralph Alcendor  
Reginald Blake  
Renata Budny  
Gwen Cohen-Brown  
Aida Egues  
Paul King  
Elaine Leinung  
Alberto Martinez  
Hamidreza Norouzi  
Tony Nicolas  
Cinda Scott  
Liana Tsenova  
Viviana Vladutescu

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A special recognition and appreciation to **Jonathan Campoverde** for designing the program.

