Grateful Acknowledgments

To all the dedicated professors for mentoring students, Interim Dean Karl Botchway, Ms. Laura Yuen-Lau, Ms. Iva Williams, Prof. Julia Jordan, Prof. Andrew Douglas, Mr. George Lowe, Mr. Teddy Adolthe, Mr. Jeff Novak, a heartfelt thank you for making this event a successful one.

A special recognition and appreciation to Ms. Keiko Nakayama for designing the program.
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AWARDS CEREMONY

December 8, 2011
Klitgord Gym
12:30 PM

WELCOME

Dr. Janet Liou-Mark
Director of Honors Scholars Program

GREETINGS

Dr. Russell K. Hotzler
President

Dr. Bonne August
Provost & Vice President for Academic Affairs

Dr. Estela Rojas
Director of Learning Communities

Cultivating Fine Dining Etiquette - Prof. Fiona Williams
October 12, 2011

Designing a Research Poster Presentation - Dr. Cinda Scott
November 17, 2011

The New York Aquarium
September 23, 2011
HONORS COURSES

MAT 1475H: Calculus I Honors
Prof. Satyanand Singh

Differentiability and a Peano Curve

Abstract:
A Peano curve will be generated. A study will be conducted on its differentiability both theoretically and with Maple.

LAW 4900H: Senior Legal Seminar Honors
Prof. Mary Sue Donsky

Famous American Trials
Jay Berman: Leopold and Loeb Trial
Ryan Condon: Charles Manson Trial
Lashauna Fisher: Salem Witchcraft Trial
Anne Huang: Lizzie Borden Trial
Petal Jarvis: Rosenberg Trial
Violetta Karl Borcan: Scottsboro Trials
Mandy McKinnon: Hauptmann (Lindbergh) Trial
Jennifer Mejia: Sacco-Vanzetti Trial
Crystal Mendez: Scopes Monkey Trial
Olga Ostrovskaya: Patty Hearst Trial
Kimber Warren: Triangle Shirtwaist Fire Trial
Samuel Williams: Chicago Seven Conspiracy Trial

Abstract:
Students investigated and prepared reports on famous trials in U.S. history. They looked into the facts of the case, the attorneys who represented the parties, interesting events that happened during the trial and the outcome of the case. They also explored their own thoughts about the verdict and whether the case would have been decided the same way today.

LAW 4704H: Legal Technology Honors
Prof. Marissa J. Moran

Law, Privacy, and Technology
Legal and Technology Gurus
Bethany Acevedo, Fanny Gerloven Chico, Verhay Gill-Lewis, Andrei Kamenev, Belinda Lovelace, Ludean Maitland, Crystal Mendez, Cassandra Thakur, and Terel Watson

Abstract: Law, Privacy, & Technology
The United States of America provides many rights and freedoms for its citizens. The right to privacy, however, is not expressly mentioned in the United States Constitution, nor in any amendment to our country’s constitution. Two great legal scholars, Samuel D. Warren and Louis D. Brandeis, wisely noted in their “Right to Privacy Paper,” published in 1890 in Harvard Law Review, that privacy rights should be adapted to the needs of a society when they stated, “Political, social, and economic changes entail the recognition of new rights, and the common law in its eternal youth, grows to meet the new demands of society.” Recent case law reveals, however, that what people have come to expect from the law in terms of their expectation of privacy may no longer be recognized in the digital age we now live in. The Legal Technology students drafted memoranda exploring the current state of the law as it relates to privacy in the age of technology and provided suggestions as to legal reform in this area. While conducting their research they reviewed articles in a Law & Technology Journal as well as the Carnegie Mellon Research: Internet Privacy is Hard to Find article.

Abstract: Legal & Technology Gurus
Steve Jobs has been dubbed “the Inventor of the Future.” His creative style and business technology savvy allowed him to invent devices that touched the lives and sparked the imagination of people all around the world. Steve Jobs had a profound effect on technology information and the way people think about communicating. Similarly, many lawyers, judges, legal scholars, writers, and inventors have also left a lasting impression on the world with their unique accomplishments. In thinking about what these individuals have done to allow people from all parts of the world to think, imagine, and live their lives differently, the Legal Technology students drafted memoranda exploring the contributions that Jobs as well as others from the legal or technology areas have made to our society.
HONORS SCHOLARS PROJECTS

The Effect of Volcanic Eruptions on Climate
Musaib Ahmed
Prof. Ashraf Mongroo
PHYS 1434: Physics 2.2

How Can We Control Combustion Inside a Heater System?
Jhonatan Alvizurez
Prof. Lukasz Sztaberek
ENVC 1210: Combustion Processes and Equipment

1…2…3…There Goes the PROPELLER!
Amirah Baksh
Prof. Edward Morton
EMT 2320: Advanced Mechanisms

Teenage Pregnancy and the Media’s Influence on Today’s Youth
Samah Bazar
Prof. Regina Robin
SOC 1101: Elements of Sociology

The Concept of Beauty - Fairy Tales
Tameika Bumbury
Prof. Regina Robin
SOC 1101: Elements of Sociology

From the Spread of Wildfire to the Spread of Contagion: Computational Insights with Monte Carlo Simulations
Alma Cabral-Reynoso
Prof. Boyan Kostadinov
MAT 3772: Stochastic Models

Fact or Fiction? Why do Airlines Overbook their Flights?
Christopher Chan
Prof. Satyanand Singh
MAT 2572: Probability and Mathematical Statistics I

Pneumatic Boxing Robot
Tony Chen
Prof. Piotr Bracichowicz
EMT 2320: Advanced Mechanisms

Arabic Poetry- A Historical Survey
Rhonda Lee Davis
Prof. Abdessadek Boumahchad
ARB 1102: Elementary Arabic II

Electronic Discovery
Susan Decker
Prof. Lise Hunter
LAW 2403: Legal Document Preparation

The Role of Vitamin D in Oral Health
Pamela Elena Estevez
Prof. Laina Karthikeyan
BIO 3302: Microbiology
Nonlinear Dynamics of a Bose-Einstein Condensate of Indirect Excitons in a Trap
Victor He
Prof. Oleg Berman and Prof. German Kolmakov
PHYS 1442: Physics II

Poverty in Myanmar
Zaw Myo Hein
Prof. Steve Panford
AFR 1502: Sociology of Urban Poverty

Computational Design of Microfluidic Devices to Segregate Compliant Objects
Fernando Hernandez
Prof. German Kolmakov
PHYS 1442: Physics II

Law, Privacy, & Technology and Legal & Technology Gurus
Anne Huang
Prof. Marissa Moran
LAW 4704: Legal Technology

Relationship between the CCR8 Receptor and Cancer
Karan Khosla
Prof. Nasreen Haque
BIO 3302: Microbiology

A Svelte Parametrization
George Kobakhidze
Prof. Satyanand Singh
MAT 2675: Calculus III

Computational Design of Microfluidic Devices to Segregate Compliant Objects
Samden Lama
Prof. German Kolmakov
PHYS 1442: Physics II

How Narrative Analysis can be Applied to Forensic Psychology
Rebecca Langer
Prof. Eric Rodriguez
PSY 2402: Psychology of Personality

Fact or Fiction? Why do Airlines Overbook their Flights?
Vivek Panneer
Prof. Satyanand Singh
MAT 2572: Probability and Mathematical Statistics I

Law, Privacy, & Technology and Legal & Technology Gurus
Karen Peters
Prof. Marissa Moran
LAW 4704: Legal Technology

Epidermiologic Picture of Tuberculosis in New York: With Special Focus in Brooklyn
Alketa Plaku
Prof. Liana Tsenova
BIO 3302: Microbiology

Endocrine Disrupting Chemicals and its Effects on Puberty and Reproduction
Alma Plaku
Prof. Sanjoy Chakraborty
BIO 2312L: Anatomy & Physiology II Lab

Is it Ever Too Late to Learn a Second Language?
Alicia Reznick
Prof. Niloufar Haque
BIO 2311: Anatomy and Physiology I

Are We More Microbes than Human Cells?
Sujata Saluja
Prof. Nasreen Haque and Prof. Niloufar Haque
BIO3302: Microbiology

The Role of Vitamin D in Oral Health
Shirley Sam
Prof. Laina Karthikeyan
BIO3524: Nutrition

Fact or Fiction? Why do Airlines Overbook their Flights?
Khalifa Sogue
Prof. Satyanand Singh
MAT 2572: Probability and Mathematical Statistics

Technologies for a Healthier Nigeria
Troy Thompson
Prof. Carol Brathwaite
MKT 2327: Entrepreneurship

Sophocles & Antigone: A Historical Context
Douglas Trigilianos
Prof. Sara Schechter
ENG 3401: Law through Literature

Neurological Diseases in the United States
Gergana Uzunova
Prof. Niloufar Haque
BIO 2311: Anatomy and Physiology I

Statistical Modeling Using Java
Michael Walz
Prof. Eric Sabbah
CST 3513: Oop JAVA

The National Society of Collegiate Scholars Chapter Officers
The Poker Face Disease
Aruna Woods
Prof. Niloufar Haque
BIO 2311L: Anatomy and Physiology I Lab

Monte Carlo Simulations on the Wave Nature of Light: Recreating the Interference Pattern Produced by Photons in Young’s Double-Slit Experiment
Karmen Yu
Prof. Boyan Kostadinov
MAT 3772: Stochastic Models

From the Spread of Wildfire to the Spread of Contagion: Computational Insights with Monte Carlo Simulations
Yi Ming Yu
Prof. Boyan Kostadinov
MAT 3772: Stochastic Models

EMERGING SCHOLARS PROJECTS

2-D Polygon Smoothing: From Chaos to Order
Frank Aline
Prof. Boyan Kostadinov

Nonlinear Dynamics of a Bose-Einstein Condensate of Indirect Excitons in a Trap
Cynthia Augustin
Prof. Oleg Berman and Prof. German Kolmakov

African Cultural Survival Maintenance in African Diaspora
Evita Belmonte
Prof. Annie Ngana Mundaka

Epidermiologic Picture of Tuberculosis in New York: With Special Focus in Brooklyn
Maria Castillo
Prof. Liana Tsenova

Computational Group Theory and Applications to Cryptography
Damon Cham
Prof. Delaram Kahrobaei

Sustaining an Online Writing Program
Tamrah Cunningham
Prof. Reneta Lansiquot

Nonlinear Dynamics of a Bose-Einstein Condensate of Indirect Excitons in a Trap
Samuel Delegado
Prof. Oleg Berman and Prof. German Kolmakov

Computational Group Theory and Applications to Cryptography
Aboudrahamane Doukoure
Prof. Delaram Kahrobaei

The Effect of Pro-Argin Desensitizing Technology on Patients with Dentin Hypersensitivity
Laura Duran
Prof. Anty Lam

The Role of Vitamin D in Oral Health
Pamela Estevez
Prof. Gwen Cohen-Brown, Prof. Sanjoy Chakraborty, Prof. Boris Gelman, and Prof. Laina Karthikeyan

9th Annual Faculty and Student Research Poster Presentation
November 17, 2011

American Museum of Natural History
November 4, 2011

Mid-Hudson Mathematics Conference - Bard College - Thinh Le
October 16, 2011
Pupillary Reactivity to Attractive and Repulsive Images
Brayan Feliz
Prof. Daniel Capruso

Phase Transitions in the Ising Model
Pierre Gedeon
Prof. Matthew Delgado

Sustaining an Online Writing Program
Elaine Green
Prof. Reneta Lansiquot

Nonlinear Dynamics of a Bose-Einstein Condensate of Indirect Excitons in a Trap
Victor He
Prof. Oleg Berman and Prof. German Kolmakov

Computational Design of Microfluidic Devices to Segregate Compliant Objects
Fernando Hernandez
Prof. German Kolmakov

The Standard Model of Particle Physics at the LHC
Salima Huseynova
Prof. Andrea Ferroglia

Computational Design of Microfluidic Devices to Segregate Compliant Objects
Ervin Ibragimov
Prof. German Kolmakov

Hydraulic Modeling of Sea Level Rise Predictions for New York State Coastal Bridges
Dawid Janik
Prof. Gerarda Shields

Stalin’s Cold War Captives: Noel Field and the Fieldist Conspiracy, 1949-1955
George Kobakhidze
Prof. Kyle Cuordileone

Stalin’s Cold War Captives: Noel Field and the Fieldist Conspiracy, 1949-1955
Ewelina Kosmaczewska
Prof. Kyle Cuordileone

Stalin’s Cold War Captives: Noel Field and the Fieldist Conspiracy, 1949-1955
Piotr Koszko
Prof. Kyle Cuordileone

Computational Design of Microfluidic Devices to Segregate Compliant Objects
Samden Lama
Prof. German Kolmakov

Exploring and Conducting Applied Psychological Community Collaboration Research
Rebecca Langer
Prof. Eric Rodriguez

Sustaining an Online Writing Program
Sanjiv Latchman
Prof. Reneta Lansiquot

Computational Group Theory and Applications to Cryptography
Steven Lora
Prof. Delaram Kahrobaei

A Study on the Effects of Peer Assisted Learning Workshops for Undergraduates Enrolled in Lower-Level Mathematics
Connie Lu
Prof. Janet Liou-Mark

The Standard Model of Particle Physics at the LHC
John Martinez
Prof. Andrea Ferroglia

Variation in 18S Ribosomal DNA Sequence in Different Populations of Zonocerus Variegatus
MD Mofidul Hossain R. Mia
Prof. Olufemi Sodeinde

Study of the Rate of Hospital Acquired Infections around the World
MD Mofidul Hossain R. Mia
Prof. Maria Montes-Matias

The Role of Vitamin D in Oral Health
Gessel Morales
Prof. Gwen Cohen-Brown, Prof. Sanjoy Chakraborty, Prof. Boris Gelman and Prof. Laina Karthikeyan

Nonlinear Dynamics of a Bose-Einstein Condensate of Indirect Excitons in a Trap
Pablo Mota
Prof. Oleg Berman and Prof. German Kolmakov

Meaning, Making and Emotion Writing: An Exploratory Study
Karen Neroulias
Prof. Jean Kubeck

Pupillary Reactivity to Attractive and Repulsive Images
Shaun Palmer
Prof. Daniel Capruso

Designing and Programming Three-Dimensional Virtual Modules
Brian Persaud
Prof. Reginald Blake and Prof. Reneta Lansiquot
Epidermiologic Picture of Tuberculosis in Brooklyn
Alketa Plaku
Prof. Liana Tsenova

Stalin’s Cold War Captives: Noel Field and the Fieldist Conspiracy, 1949-1955
Daria Polenova
Prof. Kyle Cuordileone

Cloud Cryptography
Kelsey Rauber
Prof. Delaram Kahrobaei

Nonlinear Dynamics of a Bose-Einstein Condensate of Indirect Excitons in a Trap
Seyedhamidreza Sadatian
Prof. Delaram Kahrobaei

Nonlinear Dynamics of a Bose-Einstein Condensate of Indirect Excitons in a Trap
Zeeshan Saroya
Prof. Oleg Berman and Prof. German Kolmakov

Stalin’s Cold War Captives: Noel Field and the Fieldist Conspiracy, 1949-1955
Katarzyna Wojdyla
Prof. Kyle Cuordileone

Endocrine Disrupting Chemicals and Its Effects on Puberty and Reproduction
Tomar Yakov
Prof. Sanjoy Chakraborty

Computational Group Theory and Applications to Cryptography
Dennys Yambay
Prof. Delaram Kahrobaei

Pupillary Reactivity to Attractive and Repulsive Images
Dmytro Yanush
Prof. Daniel Capruso

Computational Group Theory and Applications to Cryptography
Yi Ming Yu
Prof. Delaram Kahrobaei

Designing for Disaster: Shelter Evolution
Tatiana Betancur
Prof. Illya Azaroff

Designing for Disaster: Shelter Evolution
Liz Molina
Prof. Illya Azaroff

Designing for Disaster: Shelter Evolution
Eric Soltan
Prof. Illya Azaroff

Designing for Disaster: Shelter Evolution
Anna Wnetrzak
Prof. Illya Azaroff

LEARNING COMMUNITIES THEME-BASED PROJECTS

An Architectural Learning Community
Prof. Paul C. King
ARCH 1200: Architectural Drawing II & ARCH 1290: Architectural CAD

A “Shared Reading, Shared Experience, Shared Lunch”
Profs. John Akana, Karen Goodlad and Sean Scanlan
Ashley Allman, Laurie Battaglia, Richard Brunson, George Bueno, Ruth Cancela, Ginette Castillo, Maya Charles, Rebecca Charles, Yu-On Chui, Reyon Gittens, Kimberley Gonzalez, Jose Hasing, Pamela Kurz, Kert Lasdoce, Jia Min Li, Kervin Mathieu, Jennifer Mora, Michael Pena, Tiziana Sacco, Stephen Saylee, Joralfy Severino, Antonio Tlapanco, Edyne Valembrun, and Kelly Williams
HMGT 1102, HMGT 1101, and ENG 1101

Fire! Disease! Disaster!: Catastrophe and the Shaping of Urban Space
Profs. Matt Gold and Sanjive Vaidya
Isaia Garcia, Kevin Valencia, Fernando Tejeda, Ronny Andrade, Juliana Pipola, Miguel Lantigua, and Wandrille (Pierre) Boisset
ENG 1101: English Composition I, ARCH 1140: Materials in Architecture, and ARCH 1100: Architectural Drawing I

Telling Brooklyn Stories
Profs. Justin Davis and Jody R. Rosen
SPE 1330: Effective Speaking & ENG 1101: English Composition I

Blind Justice
Profs. Rebecca Devers and Noel Garcia
ENG 1101: English Composition I & LAW 1101: Introduction to Paralegal Studies

The Narrative of Computing
Prof. Reneta D. Lansiquot and Prof. Candido Cabo

Artificial Deity: Rebirth
Troy Cordice, Thomas Distefano, and Andy Persaud

Rendezvous
Walter Rada, Julio Bautista, Mark Card, Kamoliddinkhon Fazliddin, and Luis Hinojosa

Casa Amarilla
Victor Pruteanu, Ryan Balkaran, Steven Belendes, Avinda Persaud, and Fabrice Douillard

Friction
Nathan Yampolsky, Connie Lu, Carlos Oreza, Christian Ozoria, and Sandy Yu

Easter Escape
Alexey Prokopovich, Julian Martinez, Glen Owens, Andre Pennicot, and John Perez
ENG 1101: English Composition I & CST 1101 and Problem Solving with Computer Programming

Organizing Committee:
Profs. Andrew Douglas and Estela Rojas
Research Experiences for Undergraduates in Satellite and Ground-based Remote Sensing at NOAA-CREST 2
NSF REU Grant #1062934
Prof. Reginald Blake and Prof. Janet Liou-Mark

Evaluation of Cloud-top Height Estimates from MODIS
Cloud-top Pressure
Folashade Alawiye

Spectral Analysis of Soil Moisture Time Series
Amelise Bonhomme

Clustering Analysis for Cloud and Surface Type Classification
Andrew Cole

Restoring Images of Band-6 on MODIS-AQUA
Bangalee Dolley

All Fiber Based Coherent Doppler LIDAR
Abdul Jalloh

Validation of a Flash Flood Guidance System Using Observed Flood Data
Juan Mejia

A Study of Cloud Properties Using GOES Thermal Infrared Sensors
Xiaoqian Pan

Numerical Modeling of Wind Driven Water Flow
Hussain Rifat

Open-Path FTIR Applications to Aerosol Dynamics
Pyo Sunyoung

Early Comparative Analysis of Chlorophyll-a Concentration Algorithms for Use in Coastal Water Retrievals
Avani Ogwaro

Exploring DMSP (Defense Meteorological Satellite Program) SSM/T2: Measurements to Understand Atmospheric Water Vapor Distribution
Marsha Ann Cadougan

Preliminary Analysis: Electricity Consumption Changes in California
Yanelly Molina

Metropolitan Mentors Network: Growing an Urban STEM Talent Pool across New York City
NSF STEP Grant #0622493

Identity Based Encryption
Daniel Bui
Prof. Delaram Kahrobaei

Level Solutions to Linear Diophantine Equations
Damon Cham
Prof. Satyanand Singh

Predicting Seemingly Esoteric Probabilistic Distributions by Simulations and Confirming their Validity by Theoretical Methods
Thinh Le
Prof. Satyanand Singh

Level Solutions to Linear Diophantine Equations
Elizabeth Mills
Prof. Satyanand Singh

Cloud Cryptography
Kelsey Rauber
Prof. Delaram Kahrobaei

A Study on Estimation of Computational Complexity in Codes and Algorithms
Dan Sadatian
Prof. Delaram Kahrobaei

Cloud Computing
Stephanie Trochez
Prof. Delaram Kahrobaei

Number Theory, Cryptography and Such!
Yi Ming Yu
Prof. Satyanand Singh

NSF Louis Stokes Alliances for Minority Participation (LSAMP) Program

Characterization of the Shock Table Test
Roy St. Furcy
Yapah Berry
Prof. Gaffar Gailani

Stability of Long Bone Implants
Roy St. Furcy
Allison Martin
Z-ay-va Lareche
Prof. Gaffar Gailani

Miniature Quadrocopters for Scene Understanding in Constrained Urban Areas
George A. Perez
Prof. Xiaohai Li
Determining Optical and Size Parameters of Aerosols Utilizing a Multi-Filter Rotating Shadowband Radiometer and Inter-Comparison with A CIMEL Sunphotometer
Antonio Aguirre
Prof. Viviana Vladutescu

Determination of Aerosol Optical Depth using a Micro Total Ozone Spectrometer II (MICROTOPS II) Sun-Photometer
Agossa Segla
Prof. Viviana Vladutescu

**NASA-CIPAIR Grant**
Designing Curriculum in Aerospace
Yapah Berry
Sean Pratt
Olivia Reed
Prof. Gaffar Gailani

**MEDU 2901: Peer Leader Training in Mathematics**
NSF STEP Grant #0622493, Black Male Initiative, and Perkins VTEA
Prof. AE Dreyfuss

How does the Peer Leader use different grouping strategies to help students work together?
Guochang Cen

How can peer learning aid students succeed academically in Math 1175?
Christopher Chan

How can a mathematics major help non-mathematics majors solve problems in sequential steps?
Tamika Hendricks

What workshop strategies can promote learning for students in Math 1175?
Alketa Plaku

How can competition be used to improve students’ problem-solving skills in Math workshop?
Suhua Zeng

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

**Climate Change Impacts on Water Resources**
Milca Perez (Captain), Mandesha Hamilton (Co-Captain), Hazel Nuez, Albert Padilla, Jhonathan Alarcon, Sharma Bruno, Lindsay Orton, Gloria Siguenza, Zhifei Zhao, Jennifer Lueng, and Bruce Douglas

**Climate Change Impacts on Energy**
Geraldine Aybar (Captain), Raymond Moussa (Co-Captain), Christopher Montalvo, Joel Cathey, Amy Maharaj, Alfredo Angomas, Preparim Balla, Jennifer Padilla, Abdelmadjid Ouldamar, Iktar Uddin, Amine Hebbada, Luis Batista, and Hortensio Arrocha

**Climate Change Impacts on Health**
Eileen Moskowitz (Captain), Jorge Soriano (Co-Captain), Joseph Desdunes, Ryan Condon, Steven Somwaru, Christopher Noon, Alberony Hitchins, Olayinka Sarayi, Mitchel Severe, John Johnson, and Josue Saint-Louis

**Development of the CNS**
Daniela Gonzalez
Prof. Nasreen S. Haque and Prof. Niloufar Haque

**Learning, Memory and Behavioral Patterns: An Experimental Study**
Rajvinder Kaur
Prof. Nasreen S Haque and Niloufar Haque

**Atherosclerosis**
Andrew McGill
Prof. Nasreen S Haque and Prof. Niloufar Haque

**Childhood Disorders: Autism and ADHD**
Laurdes Padilla
Prof. Nasreen S Haque and Niloufar Haque

**Anterior Cruciate Ligament Injury**
Addler K. Pluviose
Prof. Nasreen S Haque and Niloufar Haque

**Can I Catch Alzheimer’s Disease?**
Linda Trapani
Prof. Nasreen S Haque and Prof. Niloufar Haque