7th ANNUAL
UHD STUDENT RESEARCH CONFERENCE

Sponsored by the UHD Scholars Academy
Funded by the National Institute of General Medical Sciences (1T34GM079088-01), National Science Foundation (0336612, 0402623), U.S. Army Research Office (W911NF-04-1-0024), U.S. Department of Education (P120A050068, P120A070025), The Brown Foundation, and UH-Downtown

A showcase of academic excellence demonstrated by UHD undergraduates majoring within the Colleges of Business, Humanities and Social Science, Public Service, and Sciences and Technology.

Friday, April 11, 2008

8:00 - 9:30 am Registration and Continental Breakfast, Coffee House
9:30 am Welcoming Remarks, Auditorium
9:40 - 10:10 am Keynote Speaker, Auditorium
10:15 - 11:15 am Oral Presentations, Session I, Auditorium
11:20 - 12:20 pm Oral Presentations, Session II, Auditorium
12:20 - 1:30 pm Lunch break
1:30 - 3:00 pm Open Poster Sessions, Room A300

Conference Co-Chairs:
Dr. Ermelinda DeLaVina, Associate Professor of Mathematics, UHD
Dr. Vicky Estrera, Director, UHD Scholars Academy

Conference Planning Committee:
Dr. Richard Alo, Executive Director, UHD Center for Computational Science, Professor of Mathematics
Dr. Weining Feng, Associate Professor of Engineering Technology, UHD
Mr. Rene Garcia, Program Manager, UHD Scholars Academy
Dr. Kenneth Johnson, Assistant Professor of Geology, UHD
Dr. Marilyn McShane, Professor of Criminal Justice and Director of the Institute for Community Justice, UHD
Dr. Lisa Morano, Associate Professor of Biology and Microbiology, UHD
Dr. Kenneth Oberhoff, Associate Dean, UHD College of Sciences and Technology
Dr. George Pincus, Dean, UHD College of Sciences and Technology
Dr. Gene Preuss, Assistant Professor of History, UHD
Dr. Aimee Roundtree, Assistant Professor of English, UHD
Dr. Larry Spears, Professor of Chemistry and Director of UHD Urban Center for Student Success in Science, Technology, Engineering and Mathematics
Mrs. Mary Sykes, Lecturer of Finance, Accounting and CIS, UHD
Dr. Aki Uzman, Chair of Natural Sciences Department, UHD
Dr. Jeong-Mi Yoon, Associate Professor of Mathematics, UHD
Ms. Celeste Zamora, Media Relations Manager, Communications and Marketing, UHD

Jose Jonathan Gamez, “Conjectures about the Independent-Domination Number”
UHD Faculty Mentor: Dr. Ryan Pepper
Project Location: University of Houston-Downtown

Hooman Hemmati and Danil Safin, “Simulation of Intelligent Traffic Controllers Using a Computational Grid”
UHD Faculty Mentor: Dr. Ongard Sirisaengtaksin
Project Location: University of Houston-Downtown

Anselm Khoo, “Applied Field Research: Effective Performance In Sports With Nervous Symptoms Present”
UHD Faculty Mentor: Dr. Derek de la Pena
Project Location: University of Houston-Downtown

David Nanyes, “Improvement in Airway Hyper-Responsiveness and Inflammation in an Asthma Model via Promotion of Anti-Oxidant Responses with z-cyano-4,12-Dioxoleana-1,9,(11)-Diene-28-oic Acid (CDDO)”
Co-Authors: Dan Hochman, Shelby Schultz
UHD Faculty Mentor: Dr. Edward Brooks
Project Location: University of Texas Medical Branch (UTMB)

Nicole Patterson, “Thermal Analysis of Potential Electrolytes for Nanocrystalline Solar Cells”
UHD Faculty Mentor: Dr. Maria Benavides
Project Location: University of Houston-Downtown

Daniel Sanu Siddiqui, “Switched Capacitor Filters”
UHD Faculty Mentor: Dr. Weining Feng
Project Location: University of Houston-Downtown

Oral and Poster Presentations:

Reyna Bonilla and Uffaf Khan, “Analysis of Staphylococcus aureus Biofilms and Their Inhibition with Cephazolin and Tobramycin”
UHD Faculty Mentor: Dr. Poornam Gulati
Project Location: University of Houston-Downtown

Kelrick Scott Christie Drake, “I Tried Everything”: Dialectical Tensions in Weight Loss Narratives”
UHD Faculty Mentor: Dr. Thomas Workman
Project Location: University of Houston-Downtown

Jose Jonathan Gamez, “Conjectures about the Independent-Domination Number”
UHD Faculty Mentor: Dr. Ryan Pepper
Project Location: University of Houston-Downtown

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UHD Faculty Mentor: Dr. Maria Benavides
Project Location: University of Houston-Downtown

Daniel Sanu Siddiqui, “Switched Capacitor Filters”
UHD Faculty Mentor: Dr. Weining Feng
Project Location: University of Houston-Downtown

Poster Presentation Session I (1:30PM-2:15PM):

1 - Gloria Abarca, Michael Butterworth, Samanta Fuentevilla, Tao Tang, “Analysis of the Hepatitis C Virus and Its Common Cause”
Co-Authors: Jennifer Cancino, Nick Stampaeno
UHD Faculty Mentor: V. Estrera, R. Garcia, M. Nakamura, L. Spears
Project Location: University of Houston-Downtown

3 - Seyed Alireza Abedi and Micaela Gilbert, “Computer Generated Graph Theory Conjectures”
UHD Faculty Mentor: Dr. Ryan Pepper
Project Location: University of Houston-Downtown

The UHD Scholars Academy (SA) is an academically competitive program in the College of Sciences and Technology (CST) that promotes scholarship and student success for undergraduate students majoring in Science, Technology, Engineering and Mathematics (STEM).

One Main Street, 725-North; Houston TX 77002-1001
Phone: 713-222-5344; Fax: 713-222-5356; scholars@dt.uh.edu; www.uhd.edu/scholars
5 - Frances Acevedo and John Adamson, “How High Can We Go?”
Co-Authors: Jesús Castillo, Marc Simon, Nguyen Lam
UHD Faculty Mentor: V. Estrera, R. García, M. Nakamura, L. Spears
Project Location: University of Houston-Downtown

7 - Kethlyn Africa and Laura Lucio, “Re-Evaluation of the Diatom Assemblage in the Greens Bayou Wetlands Mitigation Bank”
UHD Faculty Mentor: Dr. Bradley Hoge
Project Location: Greens Bayou Wetlands Mitigation Bank and University of Houston-Downtown

9 - Kethlyn Africa, Laura Lucio, Ngum Ngwa, “Diatom Assemblage at the Little Cypress Creek Detention Basin and White Oaks Bayou Banks 1 & 2”
UHD Faculty Mentor: Dr. Bradley Hoge
Project Location: Little Cypress Creek Detention Basin; White Oaks Bayou Bank 1; White Oaks Bayou Bank 2; University of Houston-Downtown

11 - Ibrahim Al-Khalil and Zaher Abdo, “Preliminary Studies of Thermal Properties of Glassy and Partially Glassy Rocks”
UHD Faculty Mentor: Drs. Ken Johnson and Janusz Grebiewicz
Project Location: University of Houston-Downtown

13 - Victoria Albert, “Effect of Book Illustrations on Children’s Literacy”
UHD Faculty Mentor: Dr. Ann Jennings
Project Location: University of Houston-Downtown

15 - Nikole Sophia Amaya, “Knowing Your Issues: The Impact that Technology and Education have on Public Policy Awareness”
UHD Faculty Mentor: Dr. David Branham
Project Location: University of Houston-Downtown

17 - Leonardo Acewe, “Parental Attitudes on the Importance of Education: The Importance of Race, Ethnicity and Gender”
UHD Faculty Mentor: Dr. David Branham
Project Location: University of Houston-Downtown

UHD Faculty Mentor: Dr. Phil Lyons
Project Location: University of Houston-Downtown

21 - Reyna Bonilla and Ulfaf Khan, “Analysis of Staphylococcus aureus Biofilms and Their Inhibitor with Cephazolin and Tobramycin”
UHD Faculty Mentor: Dr. Poonam Guliati
Project Location: University of Houston-Downtown

23 - Richard Bryant, “Identification and Characterization of Lignolytic Fungi”
UHD Faculty Mentor: Dr. Phil Lyons
Project Location: University of Houston-Downtown

25 - Wendy Callejas, “Chasing Polymorphism in α-Amino Acids”
Co-Authors: Tahisha Hilaire, Zaher Abdo, Prof. Ivan Bernal
UHD Faculty Mentor: Dr. Janusz Grebiewicz
Project Location: University of Houston-Downtown

UHD Faculty Mentor: Dr. Lisa Morano
Project Location: University of Houston-Downtown

29 - Alicia Corazon, “Total Domination in Connected Graphs”
UHD Faculty Mentor: Dr. Ermelinda DeLaVina
Project Location: University of Houston-Downtown

31 - Rosalind Delgado, “Total Domination in Connected Bipartite Graphs”
UHD Faculty Mentor: Dr. Ermelinda DeLaVina
Project Location: University of Houston-Downtown

33 - Kelrick Scott Christie Drake, “I Tried Everything”: Dialectical Tensions in Weight Loss Narratives”
UHD Faculty Mentor: Dr. Thomas Workman
Project Location: University of Houston-Downtown

35 - Bartlomiey Fryszcyn and Brendon Bingwa, “Annotation and Investigation of Cyanobacterium Fremyella displosiphon’s Genome for Insights into Complementary Chromatic Adaptation”
Co-Authors: Shailaja Yerrapragada, Xiang Qin, Huaiyang Jiang, Yamei Liu, Madhan Tirumalai, Haleh Ashki, Sriram RaghuRaman, David Kehoe, George Fox, George Weinstock
UHD Faculty Mentor: Drs. Akif Uzman and Catherine Horton

37 - Dennis Garcia, Rolando Lew, Irena Sigel, “Confirmation of the Presence of Xyella fastidiosa Oleander Strains OLS ANNI Located in Oleander Plants in the State of Texas”
UHD Faculty Mentor: Dr. Lisa Morano
Project Location: University of Houston-Downtown

UHD Faculty Mentor: Drs. Lisa Morano and Jeong-Ai Yoon
Project Location: University of Houston-Downtown

41 - Ginger Haug, Wilmer Naranjo, Lisa Weigle, “The Impact of Channelization on the Population Biology of the Common Snapping Turtle (Chelydra serpentina) and the Red-Eared Slider (Trachemys scripta) in the White Oak Bayou Water”
UHD Faculty Mentor: Dr. Aaron Krochmal
Project Location: University of Houston-Downtown

43 - Maria Hill, Christy Thomas, Cara Trent, “Academic Achievement Among Traditional versus Non-Traditional Students”
UHD Faculty Mentor: Dr. Anne Rinn
Project Location: University of Houston-Downtown

45 - Claudia Jimenez-Lopez and Natalie Sirisaengtaksin, “Molecular Components of Biofilms”
UHD Faculty Mentor: Dr. Poonam Guliati
Project Location: University of Houston-Downtown

47 - Nirmal John and Jenzy Varghese, “Sensors for Alcoholic Compounds”
UHD Faculty Mentor: Dr. Mian Jiang
Project Location: University of Houston-Downtown

UHD Faculty Mentor: Dr. Derek de la Pena
Project Location: University of Houston-Downtown

51 - Benedict Khoo and Jenny Martinez, “A Forensic Study of Necrophagous Insects Associated with Vertebrate Carcass along White Oak Bayou, Houston, TX”
UHD Faculty Mentor: Dr. Jeffrey Flosi
Project Location: University of Houston-Downtown/ Glenwood Cemetery

53 - Daniel Kurukji, Shawn Luce, Amita Tailor, “Acrylate-Functional Polyester and Urethane-Based Formulations Containing Multi-Walled Carbon Nanotubes”
UHD Faculty Mentor: Dr. Byron Christmas
Project Location: University of Houston-Downtown

55 - Connie Larsson, “Resource Partitioning Between the Nerodia and Agkistrodon spp. in a Riparian Environment”
Co-Authors: Jeffrey Azkley
UHD Faculty Mentor: Dr. William Lutterschmidt
Project Location: Sam Houston State University

57 - Ellie Loveman, “Visual Rhetoric of Food Packaging and Advertisements and the Affect on Childhood Obesity”
UHD Faculty Mentor: Dr. Ann Jennings
Project Location: University of Houston-Downtown

Co-Authors: Dr. Byron Christmas
Project Location: University of Houston-Downtown

61 - Carol Martinez, “R for Statistical and Parallel Computing”
UHD Faculty Mentor: Dr. Erin Hodges
Project Location: University of Houston-Downtown

63 - Matthew Wesley Monroe, “Molecular Models of Asymmetric Tetraalkylphosphonium Iodide Salts”
UHD Faculty Mentor: Dr. Maria Benavides
Project Location: University of Houston-Downtown

65 - Claudia Moreno, “Dopamine Sensing by Sol-gel Carbon Nanotubes”
Co-Authors: Juan Tito, An Vo, Rosa Villagomez
UHD Faculty Mentor: Dr. Mian Jiang
Project Location: University of Houston-Downtown
67 - Josie Marie Nava and Marium Waglar, “Identification of Microorganisms in JSC Mars-I and Lunar Simulant Soils”
UHD Faculty Mentor: Drs. Poonam Guliati and Penny Morris-Smith
Project Location: University of Houston-Downtown

69 - Shajeer Noorudeen and Nicolas Spampinato, “Metabolic Analysis of Bacteria Expressing Yeast Genes Grown on Different Sugar Sources”
UHD Faculty Mentor: Dr. Catherine Horton
Project Location: University of Houston-Downtown

71 - Chukwuma Okeke, “Microbial Populations from DNA Samples in Potatoes Infected with Zebra Chip Disease”
UHD Faculty Mentor: Dr. Lisa Morano
Project Location: University of Houston-Downtown

73 - Kristopher Overholt, “Validation of Fire Models: A Model of Thermally-Induced Electrical Cable Failure”
UHD Faculty Mentor: Dr. Kevin McGrattan
Project Location: National Institute of Standards and Technology, Gaithersburg, MD

75 - Nicolle Patterson, “Thermal Analysis of Potential Electrolytes for Nanocrystalline Solar Cells”
UHD Faculty Mentor: Dr. Maria Benavides
Project Location: University of Houston-Downtown

77 - Le Phan, “Energy Efficiency of Target Tracking In Wireless Sensor Networks”
Co-Authors: Viet Ho
UHD Faculty Mentor: Dr. Ali Berrached
Project Location: University of Houston-Downtown

79 - Lisa Michelle Resendez, “Ethnicity, Race, Gender and Parental Value of Education in America”
UHD Faculty Mentor: Dr. David Branham
Project Location: University of Houston-Downtown

81 - Dagmara Sabara, “The Study of the Interactions Between Flavin Adenine Dinucleotide (FAD) and Histidine”
UHD Faculty Mentor: Dr. Stanislaw Wysocki
Project Location: Technical University of Lodz

83 - Melissa Saucedo, “Involuntary Volunteerism: The Effects of Requiring People to “Do Good”?”
UHD Faculty Mentor: Dr. Susan Henney
Project Location: University of Houston-Downtown

85 - Daniel Sanu Siddiqui, “Switched Capacitor Filters”
UHD Faculty Mentor: Dr. Weining Feng
Project Location: University of Houston-Downtown

87 - Mark Anthony Smithers, “Data Mining Using C#”
UHD Faculty Mentor: Dr. Ping Chen
Project Location: University of Houston-Downtown

89 - Rea M. Talbott, “Visual Rhetoric in Training Manuals: Design Principles and Ethical Considerations”
UHD Faculty Mentor: Dr. Ann Jennings
Project Location: University of Houston-Downtown

UHD Faculty Mentor: Dr. Akif Uzman
Project Location: University of Houston-Downtown

93 - Nghia Dai Tran, “MINIPAR Parse Visualization Tool Program”
UHD Faculty Mentor: Dr. Ping Chen
Project Location: University of Houston-Downtown

95 - Rosa Villagomez, “Electrochemical DNA Assay by using Nickel-Based Electrode”
UHD Faculty Mentor: Dr. Mian Jiang
Project Location: University of Houston-Downtown

97 - Devril Watson, “Student Perception of Hybrid Learning Environment”
UHD Faculty Mentor: Drs. Christine Bachman and Derek de la Pena
Project Location: University of Houston-Downtown

99 - Desiree Wilson, “Radiocarbon Chronology for Deposition of Alluvial Fans in the Uinta Basin, Northeastern Utah”
Co-Authors: Brittany R. Hanly
UHD Faculty Mentor: Dr. Eric Carson
Project Location: Uinta Basin in Northeastern Utah

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**Poster Presentation Session II (2:15PM-3:00PM):**

2 - Seyed Alireza Abedi, Brandy Bell, Michelle Chatman, “Thermal Properties of Oil-Bearing Shales”
Co-Authors: Zaher Abdo
UHD Faculty Mentor: Drs. Jansuz Grebowicz and Kenneth Johnson
Project Location: University of Houston-Downtown

4 - Shareefa Abram, “The Design Elements of Training Manuals”
UHD Faculty Mentor: Dr. Ann Jennings
Project Location: University of Houston-Downtown

6 - Jaime Acosta, “Heinz Heger’s The Men with the Pink Triangle: Graduated Power and Homosexual Survival in the Nazi Death Camps.”
UHD Faculty Mentor: Dr. Tammiss Thomas
Project Location: University of Houston-Downtown

8 - Kethlyn Africa, Laura Lucio, Ngum Ngwa, “Death Assemblage in the Greens Bayou Wetlands Mitigation Bank”
UHD Faculty Mentor: Dr. Bradley Hoge
Project Location: Greens Bayou Wetlands Mitigation Bank and University of Houston-Downtown

10 - Nicole Ahlers, Arturo Garza Jr., Martin Gutierrez, Ivan De Jesus Mosqueda, Peter Obi, “Artificial Intelligence and Actual Intelligence”
Co-Authors: Lien Luog
UHD Faculty Mentor: V. Estrera, R. Garcia, M. Nakamura, L. Spears
Project Location: University of Houston-Downtown

12 - Javier Alamirra, Carlos Chavez, Matthew Ojeda, Nhung Pham, Mayra Sanchez, “A Comparison of Mortalities Due to Septicemia in Women in Different Ethnicities”
Co-Authors: Robin May
UHD Faculty Mentor: V. Estrera, R. Garcia, M. Nakamura, L. Spears
Project Location: University of Houston-Downtown

14 - Melissa Alvidoze, “Knowing Your Issues: The Importance of Technology and Education on Policy Awareness”
UHD Faculty Mentor: Dr. David Branham
Project Location: University of Houston-Downtown

16 - Jose Arias and Annie Man, “Diversity of Ascomycete found in Coastal Prairie Grasslands by use of Molecular Techniques”
Co-Authors: Michael Salazar
UHD Faculty Mentor: Dr. Phil Lyons
Project Location: University of Houston-Downtown

18 - Araly Barrera, “2-D Lexical Semantic Space Building”
UHD Faculty Mentor: Dr. Ping Chen
Project Location: University of Houston-Downtown

20 - Carmelita Blanco, Sunu Mathew, Krystin Ramos, Luis Valdez, “DNA Sequencing”
Co-Authors: Frankie Pablo and Shajeer Noorudeen
UHD Faculty Mentor: V. Estrera, R. Garcia, M. Nakamura, L. Spears
Project Location: University of Houston-Downtown

UHD Faculty Mentor: Dr. Ann Jennings
Project Location: University of Houston-Downtown

24 - Jacques Burbuma, Alvin Elizabeth Sosa, Rachel Richison, “Relationship Between Concrete Temperature Increase during Hydration and Compressive Strength”
UHD Faculty Mentor: Dr. Jorge Tito
Project Location: University of Houston-Downtown

26 - Wendy Callejas, Juana Maria Olvera, Timothy Morales, Elda Rueda, “Thermal Properties and Decomposition of Di-Nuclear Cu(ii) Compounds”
Co-Authors: Prof. Ivan Bernal
UHD Faculty Mentor: Drs. Byron Christmas and Janusz Grebowicz
Project Location: University of Houston-Downtown

UHD Faculty Mentor: Drs. Derek de la Pena and David Bachman
Project Location: University of Houston-Downtown

30 - W. Pearl Davis, “Legitimated University Admissions for Minorities - Right or Wrong, Who Decides”
UHD Faculty Mentor: Dr. David Branham
Project Location: University of Houston-Downtown
32 - Rosalinda Delgado, Anthony Johnson, Van Nguyen, “Conversation Laws - Gas Dynamics and Oil Recovery”
UHD Faculty Mentor: Dr. Katarina Jeglic
Project Location: University of Houston-Downtown

34 - Betsy Escober and Edgar Gatica, “New Transfer Platform Based on Sol-Gel Material: Application in Sensor and Battery Fabrication”
UHD Faculty Mentor: Drs. Mian Jiang and Larry Spears
Project Location: University of Houston-Downtown

36 - Jose Jonathan Gamez, “Conjectures about the Independent-Domination Number”
UHD Faculty Mentor: Dr. Ryan Pepper
Project Location: University of Houston-Downtown

38 - Ismael Garza, “An Ethical Approach to Designing Illustrations of Hazardous Work Environments”
UHD Faculty Mentor: Dr. Ann Jennings
Project Location: University of Houston-Downtown

40 - Lindsay Jeanette Harrigel and London Bliss Flores, “Insertion of ATF1 into Shuttle Vector pPTB for Ester Production”
Co-Authors: Hong Ho and Lauren Gilbert
UHD Faculty Mentor: Dr. Catherine Horton
Project Location: University of Houston-Downtown

42 - Hooman Hemmati and Danil Safin, “Simulation of Intelligent Traffic Controllers Using a Computational Grid”
UHD Faculty Mentor: Dr. Ongard Sirisaengtaksin
Project Location: University of Houston-Downtown

UHD Faculty Mentor: Dr. Stanislaw Wysocki
Project Location: Technical University of Lodz

46 - Autumn Marie Jodzio, “Standardized Testing - Lowering the Standards?”
Co-Authors: Dr. David Branham
Project Location: University of Houston-Downtown

48 - Uffaf Khan, “Inhibition of Dental Biofilms with Different Commercial Mouthwashes”
Co-Authors: Neeraj Salhotra, Claudia Jimenez-Lopez, and Natalie Sirisaengtaksin
UHD Faculty Mentor: Dr. Poonam Gulati
Project Location: University of Houston-Downtown

50 - Benedict Khoo, “Physical and Chemical Investigation of Bacterially-Produced Extracellular Polymeric Substances by Mycobacterium smegmatis”
UHD Faculty Mentor: Dr. Poonam Gulati
Project Location: University of Houston-Downtown

52 - Benedict Khoo and Jenny Martinez, “Chasing Arboviruses in Vector Mosquitoes”
UHD Faculty Mentor: Dr. Jeffrey Fosli
Project Location: University of Houston-Downtown/ Glenwood Cemetery

54 - Nguyen Lam and Wesam Mohamed, “Xylella fastidiosa Microarrays: Comparing Genomes and Evaluating Gene Expression Differences in Strains of a Plant Pathogen”
UHD Faculty Mentor: Dr. Lisa Morano
Project Location: University of Houston-Downtown

56 - Julio LaTorre and Wilfred Lau, “Synthesis and Analysis of Alkyl-Phosphonium Salts”
UHD Faculty Mentor: Dr. Tyra Montgomery
Project Location: University of Houston-Downtown

58 - Liem Luong, “Evaluation of Word Sense Disambiguation”
UHD Faculty Mentor: Dr. Ping Chen
Project Location: University of Houston-Downtown

60 - Jerry Maliti, “Positivity of the Coefficients in the Power Series Expansion of Rational Function”
UHD Faculty Mentor: Dr. Plamen Simeonov
Project Location: University of Houston-Downtown

62 - Jennifer Lee McDonell and Jesse Peyton, “Race, Self-Concept, and Academic Achievement: An Examination of College Students”
UHD Faculty Mentor: Dr. Anne Rinn
Project Location: University of Houston-Downtown

64 - Timothy Morales and Elda Rueda, “Heterogeneity of (meth)Acrylate-Based UV-Polymerized Materials: A DMA Study”
UHD Faculty Mentor: Dr. Byron Christmas
Project Location: University of Houston-Downtown

66 - David Nanyes, “Improvement in Airway Hyper-Responsiveness and Inflammation in an Asthma Model via Promotion of Anti-Oxidant Responses with z-cyano-4,12-Dioxoleane-1,9(11)-Diene-28-oxic Acid (CDDO)”
Co-Authors: Dan Hochman, Shelby Schultz
UHD Faculty Mentor: Dr. Edward Brooks
Project Location: University of Texas Medical Branch (UTMB)

68 - Binh Nguyen 2, “Mathematical Modeling of the BMP4 and FGF Signaling Pathways during Neural and Epidermal Development in Xenopus”
Co-Authors: Tung Bui 2, Marsida Lisi 1, and Rashmi SubbaRao 1
UHD Faculty Mentor: Drs. Edwin T escaro 1 and Akif Uzman 2
Project Location: University of Houston-Downtown

70 - Shamsideen Ojedale, “”
UHD Faculty Mentor: Dr. Nachum Dafry
Project Location: University of Texas - Houston Medical School

72 - Daniel Osaakue, “Active Damping Control System with Fuzzy Logic”
Co-Authors: Grantley Christie and Zahid Hossain
UHD Faculty Mentor: Dr. Weining Feng
Project Location: University of Houston-Downtown

74 - Saile Palacios, “Large Scale Knowledge Acquisition”
UHD Faculty Mentor: Dr. Ping Chen
Project Location: University of Houston-Downtown

76 - Kristi Pennington, “An Investigation into the Factors that Influence the Weight Status of College Students”
UHD Faculty Mentor: Drs. Jon Aoki and Vicky Estrera
Project Location: University of Houston-Downtown

78 - Juan Razo and Shafeeq Noorudeen, “Interaction Between Doxorubicin and Complex I in Doxorubicin-Induced Cardiomyopathy”
UHD Faculty Mentor: Dr. Jerry Johnson
Project Location: University of Houston-Downtown

80 - Criselda Romero, “Ethnicity, Partisanship and Attitudes in School Integration”
UHD Faculty Mentor: Dr. David Branham
Project Location: University of Houston-Downtown

82 - Anisa Saleh, “Accumulation of Ascomycete Communities on Roots and Rhizospheres of Coastal Prairie Grasses”
UHD Faculty Mentor: Dr. Phil Lyons
Project Location: University of Houston-Downtown

84 - Damilola Seriki, “A Study of the Genetic Variability Within and Between Populations of Hymenoxys texana”
Co-Authors: Jonathan Howard and An Nguyen
UHD Faculty Mentor: Dr. Deanna McCullough
Project Location: University of Houston-Downtown

86 - Elva Sierra and Antoine Ferguson, “Beyond the Writing Capacity: New Discoveries of Pencil in the Study of Biosensing and New Energy Alternative”
UHD Faculty Mentor: Dr. Mian Jiang
Project Location: University of Houston-Downtown

88 - Amita Tailor, Nicolle Patterson, Matthew Monroe, “Infrared Spectra of Phosphonium-Based Ionic Liquids”
UHD Faculty Mentor: Dr. Maria Benavides
Project Location: University of Houston-Downtown

UHD Faculty Mentor: Dr. Kenneth Johnson
Project Location: University of Houston-Downtown

Co-Authors: Agnieszka Kowaliska
UHD Faculty Mentor: Drs. Stanislaw Wysocki and Larry Spears
Project Location: Technical University of Lodz
94 - Victor Vasquez and Dianne Wells, “Double Standards in Students' Expectations of Lesbians and Gay Professors”
UHD Faculty Mentor: Dr. Kristin Anderson
Project Location: University of Houston-Downtown

96 - An Q. Vo, “Study of Transitional Metal-Based Detector for Carbohydrates”
UHD Faculty Mentor: Drs. Mian Jiang and Larry Spears
Project Location: University of Houston-Downtown

98 - Gabriel Williams, “Analysis of Natural Language Processing Systems”
UHD Faculty Mentor: Dr. Ping Chen
Project Location: University of Houston-Downtown

100 - Andrzej Wojcik, “A Marketing/Corporate Culture Study of Two Local Grocery Stores (aka Kroger Eats Randalls' Lunch)”
UHD Faculty Mentor: Dr. Pamela Auburn
Project Location: University of Houston-Downtown; S. Post Oak Kroger / W. Bellfort Randall's

Acknowledgements

It is a pleasure to recognize the many individuals, organizations, and institutions supporting UHD students in their research endeavors. These include significant funding of on-campus research over the past year from the National Institute of General Medical Sciences (1T34GM079088-01), National Science Foundation STEP Program (DUE 0336612), National Science Foundation UBM Program (0734294), U.S. Army Research Office HBCU/MI Infrastructure Support Program (W911NF-04-1-0024), U.S. Department of Education MSEIP Program (P120A050068, P120A070025), The Brown Foundation, Welch Foundation (BJ-0027), NASA, Shell Oil Co. and the University of Houston-Downtown. Many students conducted their research during summer research programs on and off-campus. Faculty and staff members of these and many other academic institutions, as well as personnel at industrial facilities, have done much to support and mentor our students.

In addition, we thank the UHD faculty and staff who have worked tirelessly to support undergraduate research experiences as well as the administrators who have helped make this event a reality. We especially thank Drs. Richard Alo, Weiming Feng, Kenneth Oberhoff, Dennis Rodriguez, Larry Spears, Akif Uzman, Dean Susan Ahern, Dean Donald Bates, Dean Elizabeth Pelz, Dean George Pincus, and UHD President Max Castillo.