



## Scholars Academy Recent Student Successes 2004-2009

- **Retention rate of 85%** within the Scholars Academy (SA) continues to remain the approximate average from semester to semester (rate excludes transfers/graduates). This success is even more impressive when one considers that these are STEM majors attending a public urban university, University of Houston-Downtown (UHD).
- Between recent graduates and past SA Alumni, **numerous students will/have begun graduate/professional programs** at the following institutions.
  - **16 students in Fall 2009** – 1 at Baylor College of Medicine; 1 at Columbia Univ.; 1 at New Mexico State Univ.; 1 at Texas College of Medicine; 2 at Univ. of Houston; 1 at UHD; 3 at Univ. of Texas at Houston; 3 at Univ. of Texas Health Science Center at San Antonio; 2 at Univ. of Texas Medical Branch; 1 at Univ. of Texas Southwestern
  - **11 students in Fall 2008** – 1 at American College of Medicine in Antigua, NY; 1 at Baylor College of Medicine; 1 at Texas A&M Univ.; 1 at Texas Southern Univ.; 1 at Univ. of Maryland - College Park; 1 at Univ. of South Alabama; 2 at Univ. of Texas Health Science Center at Houston; 3 at Univ. of Texas Southwestern
  - **12 students in Fall 2007** – 1 at Sam Houston State University; 1 at Texas A&M Univ.; 1 at Texas Tech; 2 at Univ. of Houston, 1 at University of South Alabama; 5 at Univ. of Texas Health Science Center at Houston; 1 at Univ. of Texas Medical Branch; 3 at Univ. of Texas Southwestern; and 1 at Vanderbilt University.
- **Graduate School and Internship Fair (GSIF) at UHD.** The purpose of GSIF is to help promote students within the College of Sciences and Technology to prospective graduate schools and internships. It additionally serves a second purpose of showcasing the academic projects undertaken by UHD students in science, technology, engineering, and mathematics. Approximately, 35 graduate/internship representatives regularly attend the event.
  - **Fall 2009** – 29 UHD STEM majors presented 22 research poster presentations.
  - **Fall 2008** – 28 UHD STEM majors presented 21 research poster presentations.
  - **Fall 2007** – 21 UHD STEM majors presented 16 research poster presentations.
  - **Fall 2006** – 23 UHD STEM majors presented 19 research poster presentations.
  - **Fall 2005** – 23 UHD STEM majors presented 17 research poster presentations.
  - **Fall 2004** – 31 UHD STEM majors presented 25 research poster presentations.
- **Annual Student Research Conference (SRC) at UHD.** This is a university-wide conference for students to present research projects. This presentation experience is an important experience for the underrepresented students and provides an advantage when they apply to graduate school.
  - **Spring 2009** – 99 UHD STEM majors presented 64 research projects in oral and poster presentations. Another 36 projects were presented by other non-STEM majors.
  - **Spring 2008** – 122 UHD STEM majors presented 75 research projects in oral and poster presentations. Another 25 projects were presented by other non-STEM majors.
  - **Spring 2007** – 112 UHD STEM majors presented 60 research projects in oral and poster presentations. Another 24 projects were presented by other non-STEM majors.

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).

Funded by the National Institute of General Medical Sciences (7ONANB7H6066), National Science Foundation (0336612, 0402623, 0324053, 0728408), U.S. Army Research Office (W911NF-04-1-0024), U.S. Department of Education (P120A050068, P120A070025B), Joint Admission Medical Program (K-2-01024), The Brown Foundation, Welch Foundation (BJ-0027), UHD Donors

- **Spring 2006** – 122 UHD STEM majors presented 83 research projects in oral and poster presentations. Another 19 projects were presented by other non-STEM majors.
- **Spring 2005** – 85 UHD STEM majors presented 55 research projects in oral and poster presentations. Another 11 projects were presented by other non-STEM majors.
- **Fall 2003** – 51 UHD STEM majors presented 37 research projects in oral and poster presentations.
- **Participation in National Competitive Summer Research Programs.** These are student participation within off-campus, competitive paid summer research programs.
  - **Summer 2009** – 18 SA members participated in off-campus research; 1 additional undergraduate was selected to participate in a SMDEP summer program; 8 additional students participated in an international research program in Poland.
  - **Summer 2008** – 13 SA members participated in off-campus research; 4 additional undergraduates were selected to participate in SMDEP summer programs; 12 additional students participated in an international research program in Poland.
  - **Summer 2007** – 11 SA members participated in off-campus research; 8 additional undergraduates were selected to participate in SMDEP summer programs; 6 additional students participated in an international research program in Poland.
  - **Summer 2006** – 13 SA members participated in off-campus research; 4 additional undergraduates were selected to participate in SMDEP summer programs.
  - **Summer 2005** – 13 SA members participated in off-campus research.
  - **Summer 2004** – 16 students participated in off-campus research programs.
- **Participation in Competitive Summer Undergraduate Research Program (SURP) at UHD.** All on-campus research interns present their work at local, regional and/or national research conferences, including the annual UHD Student Research Conference. Most SURP participants also continue their research into the fall/spring semesters on-campus.
  - **Summer 2009** – 55 students participated in research on-campus.
  - **Summer 2008** – 58 students participated in research on-campus.
  - **Summer 2007** – 60 students participated in research on-campus.
  - **Summer 2006** – 51 students participated in research on-campus.
  - **Summer 2005** – 46 students participated in SURP.
  - **Summer 2004** – 49 students were selected to participate in UHD's SURP within the College of Sciences and Technology.
- **Red Rose Ball Scholarship Award Recipients.** These are awarded by the UHD President's Office and are the most prestigious student awards given at UHD.
  - **2009-2010** – 13 of the 25 are from SA
  - **2008-2009** – 12 of the 25 are from SA
  - **2007-2008** – 8 of the 25 are from SA
  - **2006-2007** – 13 of the 25 were from SA
  - **2005-2006** – 10 of the 25 were from SA
  - **2004-2005** – 15 of the 25 awardees were SA members
- **Recognition for outstanding research and/or attendance at major STEM conferences.**
  - **Fall 2009 – Supercomputing Conference, Portland, OR**
    - 1 student presented a research poster
  - **Fall 2009 – National Sigma Xi Student Research Conference, The Woodlands, TX**
    - 9 students presented research posters; 1 of these received an award
  - **Fall 2009 – Fifth Annual Texas Undergraduate Mathematics Conference, Huntsville, TX**
    - 5 students attended; 2 of these presented oral research presentations
  - **Fall 2009 – Texas Branch Fall Meeting of the American Society for Microbiology, Tyler, TX**
    - 2 students presented (1 research poster and 1 oral); the oral presenter received an award

- **Fall 2009 – Annual Biomedical Research Conference for Minority Students (ABRCMS), Phoenix, AZ**
  - 3 students presented research posters and 1 student presented an oral
- **Fall 2009 – 19th Keck Center Annual Research Conference, Houston, TX**
  - 3 students attended
- **Fall 2009 – Regional Undergraduate Chemistry Symposium at Rice University, Houston, TX**
  - 6 students presented (2 joint research posters and 1 oral)
- **Fall 2009 – First Annual Undergraduate Conference at the Interface of Biology and Mathematics at the Univ. of Tennessee-Knoxville, Knoxville, TN**
  - 3 students presented orals; 1 of these received a presentation award
- **Fall 2009 – National Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) Conference, Dallas, TX**
  - 8 students presented research posters and received travel grants
- **Fall 2009 – Hispanic Engineer National Achievement Awards Conference, Long Beach, CA**
  - 18 students attended
- **Fall 2009 – Third Annual Iowa Mathematical Field of Dreams Conference and StatFest Conference, Iowa City, Iowa**
  - 1 student attended with sponsored travel funds
- **Spring 2009 – Mathematical Association of America (MAA) Texas Section Annual Meeting, Denton, TX**
  - 2 students attended; 1 student made an oral presentation
- **Spring 2009 – Richard Tapia Celebration of Diversity in Computing Conf., Portland, OR**
  - 7 students attended; 3 received travel grants
- **Spring 2009 – Lone Star Graduate Diversity Colloquium, San Antonio, TX**
  - 1 student attended with a travel grant
- **Spring 2009 – Texas Branch of the American Society for Microbiology, New Braunfels, TX**
  - 11 students presented research posters, 1 of these students made oral presentations; 1 received an oral award, plus three alums made oral/poster presentations and two of these received awards
- **Spring 2009 – Computing Alliance for Hispanic-Serving Institutions Annual Meeting, Mountain View, CA**
  - 14 students attended; 6 students presented research posters
- **Spring 2009 – Georgia Institute of Technology 2009 FOCUS Scholars Program, Atlanta, GA**
  - 4 students attended with partial travel awards
- **Spring 2009 – Mathematical Association of America (MAA) 2009 Joint Mathematics Meetings, Washington, DC**
  - 9 students attended; 7 students presented research posters
- **Fall 2008 – National Sigma Xi Student Research Conference, Washington, DC**
  - 4 students presented research posters
- **Fall 2008 – 2008 Supercomputing Conference, Austin, TX**
  - 6 students attended; 3 students presented a joint research poster
- **Fall 2008 – Annual Biomedical Research Conference for Minority Students (ABRCMS), Orlando, FL**
  - 13 students presented research posters and 1 student presented an oral; 6 of these also received travel grants; 2 received poster awards
- **Fall 2008 – National Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) Conference, Salt Lake City, UT**
  - 8 students presented research posters and received travel grants; 1 won a poster award
- **Fall 2008 – Hispanic Engineer National Achievement Awards Conference, Houston, TX**
  - 40 students attended and 5 competed within the HENAAC College Bowl competition
- **Fall 2008 – Grace Hopper Celebration of Women in Computing Conference, Keystone, CO**
  - 3 students attended

- **Fall 2008 – UH Undergraduate Research Day, Houston, TX**
  - 1 student presented a research poster
- **Fall 2008 – Fourth Annual Texas Undergraduate Mathematics Conference, Huntsville, TX**
  - 8 students attended; 2 students presented oral research presentations
- **Fall 2008 – Geological Society of America (GSA) 2008 Joint Annual Meeting, Houston, TX**
  - 6 students and a recent alum presented research posters
- **Spring 2008 – Undergraduate Biomathematics Day at the Buffalo and Geneseo SUNY Colleges, Niagara Falls, NY**
  - 3 students presented research posters
- **Spring 2008 – Urban University Conference Series - LSAMP Program Undergraduate Student Research Conference, NY, NY**
  - 2 students presented research posters
- **Spring 2008 – 2008 National Institute of Standards and Technology (NIST) Annual Fire Conference, Gaithersburg, MD**
  - 1 student presented a research poster
- **Spring 2008 – Lone Star Graduate Diversity Colloquium, Lubbock, TX**
  - 3 students attended
- **Spring 2008 – 22nd National Conference on Undergraduate Research, Salisbury, MD**
  - 1 student presented a research poster
- **Spring 2008 – 2008 SHPE/GEM GRAD Lab at Univ. of Texas-El Paso, El Paso, TX**
  - 2 students attended
- **Spring 2008 – Texas-Section American Society of Civil Engineers Conference, Corpus Christi, TX**
  - 1 student presented a research poster
- **Spring 2008 – American Chemical Society National Meeting, New Orleans, LA**
  - 1 student presented a research poster
- **Spring 2008 – Undergraduate Biomathematics Day at the Buffalo and Geneseo SUNY Colleges, Niagara Falls, NY**
  - 4 students presented research posters
- **Spring 2008 – Mathematical Association of America (MAA) Texas Section Annual Meeting, Stephenville, TX**
  - 6 students attended; 2 students presented research posters
- **Spring 2008 – Texas Branch of the American Society for Microbiology, New Braunfels, TX**
  - 13 students attended; 8 presented research posters; 1 received a poster award
- **Spring 2008 – 111th Texas Academy of Science Annual Meeting, Waco, TX**
  - 5 students presented research posters
- **Fall 2007 – 2nd Annual Meeting for the Computing Alliance of Hispanic-Serving Institutions, Miami, FL**
  - 1 student attended
- **Fall 2007 – Supercomputing Conference 2007, Reno, NV**
  - 1 student attended
- **Fall 2007 – 63rd Southwest Regional Meeting - American Chemical Society, Lubbock, TX**
  - 1 student presented a research poster
- **Fall 2007 – U.S. Dept. of Energy 2007 Day of Science, Knoxville, TN**
  - 2 students attended
- **Fall 2007 – Annual Biomedical Research Conference for Minority Students (ABRCMS), Austin, TX**
  - 2 students presented research posters
- **Fall 2007 – Third Annual Texas Undergraduate Mathematics Conference, Huntsville, TX**
  - 6 students attended
- **Fall 2007 – National Sigma Xi Student Research Conference, Orlando, FL**
  - 2 students presented research posters

- **Fall 2007 – National Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) Conference, Kansas City, MO**
  - 8 students presented research posters and received travel grants
- **Fall 2007 – Einsteins in the City, New York, NY**
  - 4 students presented research posters; 1 received a poster award
- **Fall 2007 – American Medical Student Association at American Riverside College, Sacramento, CA**
  - 2 students attended with travel support from student activities
- **Fall 2007 – Hispanic Engineer National Achievement Awards Conference, San Diego, CA**
  - 11 students attended and competed within the HENAAC College Bowl competition
- **Summer 2007 – Latin American and Caribbean Consortium of Engineering Institutions (LACCEI) - Fifth Latin American and Caribbean Conference in Tampico, MX**
  - 1 student presented a joint research poster
- **Spring 2007 – Minority Graduate Education at Mountain States Alliance (MGE@MSA)/Western Alliance to Expand Minority Opportunities (WAESO) Conference, Tempe, AZ**
  - 2 students presented research posters and received travel grants; 1 received a poster award
- **Spring 2007 – 21st National Conference on Undergraduate Research (NCUR(r) 21), San Rafael, CA**
  - 2 students presented a joint research poster
- **Spring 2007 – 2007 National Institute of Standards and Technology (NIST) Annual Fire Conference, Gaithersburg, MD**
  - 1 student presented a research poster
- **Spring 2007 – Texas Branch of the American Society of Microbiology Meeting, Fisher, TX**
  - 11 students attended; 3 presented research posters and 1 delivered an oral presentation; 1 won first place in the poster competition and 1 won first place in the oral competition
- **Spring 2007 – 110th Texas Academy of Science Annual Meeting, Waco, TX**
  - 11 students presented research posters; 2 received poster awards
- **Fall 2006 – Houston LSAMP National Student Research Conference, Houston, TX**
  - 23 students attended; 4 of these presented; 1 of which won 2<sup>nd</sup> Place Poster Award in Engineering Technology
- **Fall 2006 – Sigma Xi Annual Meeting and Student Research Conference, Detroit, MI**
  - 2 students presented research posters
- **Fall 2006 – Annual Biomedical Research Conference for Minority Students (ABRCMS) in Anaheim, CA**
  - 2 students presented research posters; 1 won a poster award
- **Fall 2006 – National Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) Conference, Tampa, FL**
  - 8 students attended and received travel grants; 4 presented research posters; 1 won Best Poster in Biological Sciences
- **Fall 2006 – 2nd Annual Texas Undergraduate Mathematics Conference, Huntsville, TX**
  - 5 students attended; 3 of which presented research posters
- **Fall 2006 – 62nd Southwest Regional Meeting of the American Chemical Society (SWRM), Houston, TX**
  - 2 students presented research posters
- **Fall 2006 – Hispanic Engineer National Achievement Awards Conference, Anaheim, CA**
  - 6 students attended and competed within the HENAAC College Bowl competition
- **Spring 2006 – RadTech 2006 e/5 UV&EB International Conference, Chicago, IL**
  - 4 students attended; 2 of which presented research posters; 1 won best student paper presentation award

- **Spring 2006 – Minority Graduate Education at Mountain States Alliance (MGE@MSA)/Western Alliance to Expand Minority Opportunities (WAESO) Conference, Tempe, AZ**
  - 7 students presented research posters and received travel grants; 4 received poster awards.
- **Spring 2006 – Peer-Led Team Learning National Conference, Houston, TX**
  - 18 students attended
- **Spring 2006 – Texas Branch of the American Society of Microbiology Meeting, Fisher, TX**
  - 11 students attended; 3 of which presented research posters; 2 won awards
- **Spring 2006 – Texas Academy of Science 109<sup>th</sup> Annual Meeting, Edinburg, TX**
  - 3 students presented research posters
- **Spring 2006 – Mathematical Association of American National Meeting, San Antonio, TX**
  - 5 students attended; 4 of which presented research posters
- **Fall 2005 – The 2005 Pierce’s Disease Research Symposium, San Diego, CA**
  - 1 student presented a joint research poster.
- **Fall 2005 – Sigma Xi Annual Meeting and Student Research Conference, Seattle, WA**
  - 10 students presented research posters; all 10 won either 2<sup>nd</sup> or 3<sup>rd</sup> Place.
- **Fall 2005 – Richard Tapia Celebration of Diversity in Computing Conf., Albuquerque, NM**
  - 4 students attended and received travel grants to present research posters
- **Fall 2005 – Hispanic Engineer National Achievement Awards Conference, Anaheim, CA**
  - 10 students attended and competed within the HENAAC College Bowl competition; 1 won a 2<sup>nd</sup> Place Team Award
- **Fall 2005 – National Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) Conference, Denver, CO**
  - 10 students attended and received travel grants; 6 presented research posters; 1 won Best Poster in Geology
- **Spring 2005 – Evolution 2005 from the Society for the Study of Evolution, the Society of Systematic Biologists, and the American Society of Naturalists, in Fairbanks, Alaska**
  - 1 student presented a research poster
- **Spring 2005 – 2005 Regional Wetlands Technical Conference, Corpus Christi, TX**
  - 1 student presented a research poster
- **Spring 2005 – Minority Graduate Education at Mountain States Alliance (MGE@MSA)/Western Alliance to Expand Minority Opportunities (WAESO) Conference at Arizona State University**
  - 10 students presented research posters and received travel grants
- **Spring 2005 – 7<sup>th</sup> Annual Research Symposium at UT-Brownsville/TSC**
  - 1 student presented a research poster and won "1<sup>st</sup> Place" in the Physical Science and Mathematics Category
- **Spring 2005 – Texas Section of the Mathematical Association of America Meeting, Arlington, TX**
  - 9 students attended; 1 of which presented a research poster
- **Spring 2005 – Texas Branch of the American Society of Microbiology Meeting, Fisher, TX**
  - 8 students attended; 5 of which presented research posters; 1 won best undergraduate poster
- **Spring 2005 – UH Local Sigma XI Meeting, Houston, TX**
  - 2 students presented research posters; 1 of which won best poster award
- **Spring 2005 – Texas Academy of Science 108<sup>th</sup> Annual Meeting, Edinburg, TX**
  - 3 students presented research posters; 2 of which won Honorable Mention for their posters
- **Spring 2005 – 2<sup>nd</sup> Annual Texas Environmental Leadership Conference at UHD**
  - 1 student presented a workshop; over 160 guests, students, faculty attended
- **Spring 2005 – American Society for the Advancement of Science, Wash., D.C.**
  - 2 students presented research posters
- **Spring 2005 – HENAAC Viva Technology Program**

- 15 students were selected to serve as College Captains for a 1-day local high school enrichment program
- **Fall 2004 – American Society for Gravitational and Space Biology Annual Conference in New York, NY**
  - A freshman presented a research poster and won 3<sup>rd</sup> place
- **Fall 2004 – Peer-Led Team Learning National Conference, Chicago, IL**
  - 3 students presented a joint poster
- **Fall 2004 – UTHSCH Undergraduate Research Conference, Houston, TX**
  - 4 students presented research posters; a 5<sup>th</sup> student attended/participated as a peer judge
- **Fall 2004 – Sigma Xi: Scientific Research Society: Student Research Conference in Canada**
  - 2 students attended and presented research posters; one won 2<sup>nd</sup> place in environmental science, and the other won 3<sup>rd</sup> place in chemistry
- **Fall 2004 – Texas Branch of the American Society for Microbiology Fall Meeting**
  - 2 students presented their research (one oral and the other student a poster presentation)
- **Fall 2004 – Hispanic Engineer National Achievement Awards Conference, Austin, TX**
  - 6 students attended and competed within the HENAAC College Bowl competition; 1 won a 3<sup>rd</sup> Place Team Award
- **Fall 2004 – LSAMP State-Wide Student Research Conference, Houston, TX**
  - 22 students attended; 8 of these presented
- **Fall 2004 – National Society for the Advancement of Chicanos and Native Americans (SACNAS) Conference, Austin, TX**
  - 9 students attended (8 received travel grants); 5 presented research posters; 1 won Best Mathematics Poster
- **Spring 2004 – Texas Academy of Sciences Meeting**
  - 7 students presented research posters; 1 student won the 1<sup>st</sup> Place poster presentation in ecology
- **Spring 2004 – RadTech 2004 e/5 UV&EB International Conference**
  - One student presented 2 technical papers; two students presented posters
- **Spring 2004 – Mini Math Symposium**
  - 3 students won travel grants to attend
- **Spring 2004 Mathematical Association of American Texas Section Meeting**
  - A freshman presented a research poster
- **Fall 2003 – Peer-Led Team Learning National Conference, New York, NY**
  - 3 students presented a joint poster
- **Fall 2003 – National Sigma Xi Student Research Conference**
  - 4 students presented research posters; 1 student placed 1<sup>st</sup>; 2 students won ‘Runner Up’ awards
- **Fall 2003 – LSAMP State-Wide Student Research Conference, Corpus Christi, TX**
  - 10 students attended; 3 students won 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> Place in poster and oral research presentations