

Alia Sabur

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Employment

Konkuk University, International Professor as Research Liaison with Stony Brook University, Dept. of Advanced Technology Fusion.
Seoul, S. Korea 2008 - 2009
Southern University at New Orleans, Asst. Prof. of Math and Physics
New Orleans, LA 2008

Education

Drexel University, Philadelphia, PA
Ph.D. studies in Materials Science and Engineering 2004-2008
M.S. in Materials Science and Engineering 2006
Stony Brook University, NY
B.S. *summa cum laude* in Applied Mathematics 2003
Youngest female to receive a bachelor's degree

Fellowships and Awards

Guinness World Record as Youngest Professor, 2008
Delegate to Asia Society Young Leaders Summit, Tokyo, Japan 2008
Global Human Resources Forum, Invited Speaker, Seoul, S. Korea 2008
Accepted: NDSEG (Dept. of Defense) Fellowship, Dean's Fellowship, 2004
Awarded: GAANN, NASA, NSF (hon. mention) 2004
AFRL, Edwards Air Force Base, research rotation, 2004
Golden Key International Honour Society, Top Senior Award 2003

Selected Undergraduate and Graduate Activities

Served as Panelist, *Graduate Fellowship Workshop*, Drexel University
Drexel Materials Characterization Facility talk: *SERS in Nanotechnology*
Superuser for the Raman Spectrometer at the Drexel Characterization Facility
Presented at the Celebration of Undergraduate Achievements four years, including projects in Applied Math, Physics, and two Clarinet performances
VIGRE research grant and Presidential Scholarship

Scientific Articles and Conference Presentations

Sabur, A.; Havel, M.; Gogotsi, Y., SERS intensity optimization by controlling the synthesis of faceted gold nanoparticles. *Journal of Raman Spectroscopy* **2008**, 39, 61-67.
Sabur, A.; Surface Enhanced Raman Spectroscopy Carbon Nanotube Based Cellular Probes. *AZojono* **2007**, 3.
Mattia, D.; Korneva, G.; Sabur, A.; Friedman, G.; Gogotsi, Y., Multifunctional carbon nanotubes with nanoparticles embedded in their walls. *Nanotechnology* **2007**, (18), 155305.
Layton, B.; D'Souza, A.; Zeiger, A.; Sabur, A.; Dampier, W.; Does collagen's triglycine repeat length explain an interdomain transfer event from a eukaryote into *Trichodesmium erythraeum*? *Journal of Molecular Evolution*, **2008**, 66 (6)539-554.
Five conference presentations and posters at annual meetings of the Materials Research Society, the American Chemical Society, and the Optical Society of America, three as presenting author

Motivational Speaking

15 talks given: 8 to K-12 and college students in the US, Korea, and Malaysia, and 7 as a keynote or invited speaker to youth groups, educational forums, and professional organizations such as the Global Human Resources Forum, the National Council of Youth Organizations in Korea, and the FIRST Robotics Championship.

Selected Music Activities, Performances, and Awards

Clarinet studies with Ricardo Morales (Principal Clarinet, Philadelphia Orchestra) for 8 years. Additional studies with David Weber, clarinet pedagogue, and other world renowned musicians.

Activities: Attended Juilliard Pre-College and Mannes Preparatory School (scholarship performing seat). Participated in many ensembles, including as principal clarinet and member of the New York Youth Symphony for three years, the Stony Brook University Orchestra for two years, and the Clarinet Choir of the Korea National University of the Arts.

Awards: Named a Yamaha Young Performing Artist (the youngest ever), a C.W. Post Tilles Scholar at age 9, and winner of the Greenwich Village Orchestra and Oklahoma University Clarinet Symposium competitions.

Performances: Five solos with orchestras, including the Mozart Concerto at age 11 with the Rockland Symphony Orchestra. Others include performances with Lang Lang and Smash Mouth, numerous solo and chamber concerts, and organizing a “World Peace” event at Drexel University to perform “Jerusalem” with members of the Philadelphia Orchestra and Curtis Institute.

Interests

Tae Kwon Do, Traveling (US, Europe, Middle East, Asia, including two Study Abroads), Origami, Reading

Media Appearances and Articles (partial listing)

Including only full features and profiles.

TV: Today Show (twice), Fox News (3 times), CNN (twice), Lou Dobbs Tonight, Good Morning America, The View, Montel Show, Rosie O’Donnell Show, Jimmy Kimmel Live, Martha Stewart Show, Lou Dobbs Tonight (3 times) Fox Redeye, Teen Kids News (twice), KBS (Korea) Documentary.

Newspapers: New York Times (3 times), Philadelphia Inquirer (3 times), Washington Post, New York Post (7 times), Newsday (7 times), New Jersey Star-Ledger, The Independent UK, Chronicle of Higher Education, Chosun Daily News, AP (3 times), University World News, UPI, Reuters.

Radio: NPR, BBC, CBC, Voice of America, Arirang, WCBS (many), WINS

Magazines: Science, Spot On, Glamour (twice), Cosmopolitan (twice), Teen People, Time Out NY, Time for Kids, Jezebel.com.