



Overview of Student Accomplishments – STEM Fields – Stern College for Women

Departments of Biology, Chemistry/Biochemistry, Computer Sciences, Mathematics, Physics, Psychology, and Speech Pathology & Audiology

Graduate/Professional Programs: Graduating Class of May, 2019

Graduate/Professional Program	Institutions	Number of Students
Allopathic Medicine	Albert Einstein College of Medicine (8); Downstate; NY Med College; Boston Univ.; Univ. Toronto; Sackler; Ben Gurion	14
Osteopathic Medicine	Touro College of Med.; Rowan Univ; NYIT College of Medicine	5
Dental School	Harvard; Tufts; Univ. Pennsylvania; Rutgers; NYU; Touro	12
MD/PhD	Tri-Institutional Program – Cornell, Weill Cornell & Sloan Kettering; AECOM	2
Audiology (doctorate)	SDSU/UCSD	1
Computational Biology (doctorate)	Tri-Institutional Program – Cornell, Weill Cornell & Sloan Kettering	1
Mathematics (doctorate)	Cornell Univ.	1
Biomedical Sciences (doctorate)	AECOM; CUNY; Mt Sinai	4
Optometry	SUNY College of Optometry	2
Clinical Psychology (Psy.D.)	LIU Post; Ferkauf	5
Physical Therapy (doctorate)	Touro; Hunter	7
Physician Assistant (M.S.)	SUNY Downstate; Hofstra UNIV.; Nova Southeastern Univ.; York College; Touro	11
Occupational Therapy (M.S.)	NYU; Columbia; Seton Hall; LIU; York College	11
School Psychol. (PsyD)	St. Johns Univ	1
Nursing (M.S.)	Touro; Columbia Univ.; NYU	20
Speech Pathology & Audiology (M.S.)	Touro; Lehman; Montclair	12
Pharmacy (PharmD)	Touro	2
Biotech Food Engn. (M.S.)	Technion	1
Mental Health Counseling (LMHC)	Touro; Ferkauf	2
Computer Science (M.S.)	NYU	1
Speech Language Pathology (M.S.)	Touro; Lehman College; Brooklyn College; Queens College	12
Social Work (M.S.)	NYU	1

Note: Five graduates, majoring in computer science, entered the job market at Google, Facebook, UBS Management, Palantir; and Broadridge Financial Solutions. Other STEM graduates take a gap year prior to entering a med/dent school and work in research laboratories at AECOM, Columbia University, Mt. Sinai School of Medicine, NYU, and others.

Five Year Summary: Academic Years 2014-2015 to 2018-2019

Graduate Program	Number of Students
Allopathic Medicine	95 (of which 41 are at Einstein)
Osteopathic Medicine	20
Medicine/Research (M.D./Ph.D.)	3
Dental School	49
Pharmacy (PharmD)	11
Optometry School	9
Veterinary Medicine	3
Biomedical Science (Ph.D.)	11
Pharmacy (Pharm.D.)	7
Physical Therapy (doctorate)	35
Physician Assistant (M.S.)	41
Occupational Therapy (M.S.)	30
Nursing	104
Computational Biology (Ph.D.)	1
Genetic Counseling (M.S.)	8
Mathematics (Ph.D.)	1
Psychology (various programs)	33 (1, Forensic, M.S.; 6 Psychology, M.S.; 2, Mental Hlth Counseling, LMHC; 24, Clinical Psychology, Ph.D./PsyD.)
Speech Pathology/Audiology	42 (35, Speech Language Pathology; M.S.; 1 Audiology, Ph.D; 1, Speech Pathology/Audiology, AuD)
Engineering (various M.S. programs)	9 (2, Engineering; 4, Biomedical; 2, Chemical; 1, Mechanical; 1 Biotech & Food; 1, Computer Science)
Misc. M.S. Programs	36 (including: 1, Biology; 1, Biomedical Science; 3, Public Health; 2, Prosthetics & Orthotics; 1, Biotechnology; 5, Social Work; 1, Computer Science; 1, Mathematics; 1, Art Therapy; 1. Elementary Education)
Nutrition (M.S.)	5
Peer-reviewed publications with SCW co-authors	40

Summer 2019 internships

Shana Adler: Shaarei Tzedek Hospital (orthopedic surgery)
Adina Allswang: AECOM (Dr. Maitra's lab)
Noa Applebaum: AECOM (Dr. Hollander's lab)
Nicole Aranoff: Department of Molecular Pharmacology, AECOM (Aschner lab)
Rachel Aronoff: NYU Med. School (Dr. Jeffrey Berger)
Sophia Baradarian: Stern College for Women (Dr. M. Vigodner's lab)
Shir Ben-Shoshan: Mount Sinai Medical Center (Neurosurgery Department)
Eva Decter: NYU Health Career Opportunity Program (Nursing)
Yael Eisenberg, NASA - Kennedy Space Center (Spring, 2019 internship)
Sara Ekairib: YU/Bar Ilan Summer Research Program
Ailin Elyasi: Montefiore Hospital (Dr. Stuart Greenstein)
Daniela Esses, INDESA Capital (Economic Research and Financial Advisory)
Elianna Felder: Kupcinet-Getz International Summer Science School, Weizmann Institute of Science (Prof. Boris Rybtchinski, Department of Organic Chemistry)
Ashley Galitzer: YU/Bar Ilan Summer Research Program
Shoshana Gofman: Dialyze Innovation (biotechnology company)
Miriya Goldman: Montefiore Medical Center
Michelle Hoch: NYU Health Career Opportunity Program (Physician Assistant)
Farida Hosmany: Hospital Pacifica Salud (Panama)
Alexandra Huberfeld: NYU (Dr. Da-Neng Wang)
Oria Itzhaky: Columbia University (Dept. Anesthesiology; Dr. Maya Mikami)
Caroline Jaspan: Mt. Sinai School of Medicine (Dr. C. Kellner)
Shani Kahan: Stern College for Women (Dr. A. Alayev's lab)
Aleeza Katz: YU/Bar Ilan Summer Research Program
Elizabet Kershteyn: Icahn School of Medicine (Dr. D. Yenkelevitz)
Raquel Klinger: YU/Bar Ilan Summer Research Program
Sharon Lahijani: Stern College for Women (Dr. M. Vigodner's lab)
Aviva Landau: YU/Bar Ilan Summer Research Program
Miriam Lattin: Stern College for Women (Dr. A. Alayev's lab)
Shani Lavi: Stern College for Women (Dr. A. Alayev's lab)
Chana Leizman: Magen David Adom (Israel)
Rebecca Levy: Stern College for Women (Dr. M. Vigodner's lab)
Sarah Liberow: AECOM (Dr. William Jacobs)
Rachel Mauda: YU/Bar Ilan Summer Research Program
Renen Melul: Department of Biology, Yeshiva College (Dr. S. Goswami)
Michal Mizrahi: YU/Bar Ilan Summer Research Program
Tamara Morduchowitz: Mount Sinai Medical Center (Cardiovascular Research)
Talia Pachter: Boca Raton Regional Hospital (Emergency Department)
Adina Passy: Houston Methodist Summer Undergraduate Research Internship
Danielle Pasternak: Rutgers University (Genetic Counseling Internship)
Pnina Rabin: AECOM (Dr. Teresa Bowman)
Miriam Radinsky: Northwell Hospital
Etti Rapp: Microsoft Research
Rachel Reeter: YU/Bar Ilan Summer Research Program
Adi Ronen: Stern College for Women (Dr. A. Alayev's lab)
Malkie Rubin: Hackensack Hospital (Genetic Counseling Internship)
Raquel Schwartz: Engelwood Hospital

Tamar Schwartz: AECOM Summer Undergraduate Research Program
Eliana Sharvit: AECOM Summer Undergraduate Research Program
Lottie Shrem: Tel Aviv University
Sophie Shulman: Memorial Sloan-Kettering (Dr. Zelefsky)
Arina Soklakova: YU/Bar Ilan Summer Research Program
Esther Solooki: YU/Bar Ilan Summer Research Program
Tamar Soussana: Department of Chemistry, SCW (Dr. R. Drori)
Esther Stern: YU/Bar Ilan Summer Research Program
Miri Tannenbaum: Mt. Sinai Psychiatry, World Trade Center Health Research Program
Alexandra Tolmasov: YU/Bar Ilan Summer Research Program
Sara Verschleisser: National Institute of Allergies and Infectious Diseases (NIH Internship)
Shira Wein: Feinstein Institutes for Medical Research Summer Student Internship Program
Rena Weinberger: Children's Hospital of Philadelphia (Research with Anesthesiologist)
Chemda Wiener: YU/Bar Ilan Summer Research Program
Daniella Well: Northwestern University (arthritis research)
Rivky Zians: AECOM
Sarah Zusin: NYU Langone (Dr. Tomas Kirschhoff)

Publications (Names of undergraduate are in bold type)

Lucas. B., **Schwartz, T., Levy, R.**, Kemeny, S., and M. Vigodner, 2019, Identification of sumoylated targets in proliferating mouse spermatogonia and human testicular seminomas, *Asian J. Urol.* (submitted).

Codipilly, C/N., **Koppel, A.**, Ranasinghe, O., Roffe, S., Ahn, S., Navaratha, M., Abeyweera, N., Coors, C., Purushotham, A., Kamoga, R., and Schamler, R.J., 2019, Effects of human milk fortifier properties on intrinsic probiotic bacteria, *J. Parent. Enter. Nutr.* (submitted).

Girdhar, K., Hoffman, G.E., Jiang, Y., Brown, L., Kundakovic, M., Hauberg, M.E., Francoeur, N.J., Wang, Y.C., Shah, H., Kavanagh, D.H., Zharovsky, E., **Jacobov, R., Wiseman, J.R.**, Park, R., Johnson, J.S., Kassim, B.S., Sloofman, L., Mattei, E., Weng, Z., Sieberts, S.K., Peters, M.A., Harris, B.T., Lipska, B.K., Sklar, P., Roussos, P. and Akbarian, S., 2018, Cell-specific histone modification maps in the human frontal lobe link schizophrenia risk to the neuronal epigenome, *Nat. Neurosci.* 21:1126-1136.

Bostner, J., Alayev, A., **Berman, A.Y.**, Fornander, T., Nordenskjöld, B., Holz, M.K. and Stål, O. 2018, Raptor localization and estrogen-dependent breast cancer growth. *Breast Cancer Res. Treat.* 168:17-27.

Klinger, R., Altberg, G., Greenstein, J., Hwang, J., Serras, S., and Hahn, B., 2019, Young girl with torticollis, *Ann. Emerg. Med.*, 73:e11-e12.

Codipilly, C/N., **Koppel, A.**, Ranasinghe, O., Roffe, S., Ahn, S., Navaratha, M., Abeyweera, N., Coors, C., Purushotham, A., Kamoga, R., and Schamler, R.J., 2019, Effects of human milk fortifier properties on intrinsic probiotic bacteria, *J. Parent. Enter. Nutr.* (submitted).

Abstracts/presentations (Names of undergraduate are in bold type)

Dembitzer, N., and Drori, R., 2019, Antifreeze proteins shape ice crystals to prevent freezing injury, 257th National Meeting of the American Chemical Society, Orlando, FL, April.

Sharvit, E., Nik S., and Bowman T.V., 2019, ATM signaling pathway mediates apoptosis in *sf3b1* mutant zebrafish, 257th National Meeting of the American Chemical Society, Orlando, FL, April.

Shooman, A. and Santos, L.F, 2019, Static and dynamic properties of a one-dimensional spin-1/2 system, International Meeting of the American Physical Society, Boston, MA, March (oral presentation)

Shooman, A. and Santos, L.F, 2019, Static and dynamic properties of a one-dimensional spin-1/2 system, Scientista Symposium, Boston, MA, March (poster presentation)

Rubenstein, L., and DiLorenzo, T.L, 2019, Religiosity, sexual behaviors and self-esteem among college-age modern Orthodox Jewish women, Eastern Psychological Association Annual Meeting, New York, NY, March

Awards

Stern College Chemistry Club: **American Chemical Society (ACS)**, Honorable Mention Chapter Award, presented for the 2017-2018 on-campus activities of the Stern College Chemistry Club, awarded, October, 2018.

The SCW Chemistry Club was awarded in May, 2019 the **Community Interaction Grant** for the 2019-2020 academic year. The proposal, a continuation of an outreach activity at an elementary NYC public school on the Lower East Side, was put together by two incoming co-presidents, **Shana Adler** and **Esther Vidal**.

Elianna Sharvit, Finalist (Feb. 2019), **Born Seekers Fellowship Program, The Scientista Foundation**, submission – “Searching for G-d in the Laboratory”

Trachenberg Essay Contest (27th Annual)

Michelle Hoch: “Death in the hands of the Healer,” Center for Bioethics, AECOM and Montefiore Health System, Inc., December, 2018.

Opportunities for Science-STEM Majors

- Wide range of course offerings in the sciences
- Fully-equipped state-of-the-art teaching laboratories; on campus laboratory research opportunities
- Assistance in placement in off-campus research laboratories
- Pre-health advisers for careers in medicine, dentistry, optometry, podiatry, veterinary medicine, physical therapy, physician assistant, occupational therapy, nursing, nutrition, pharmacy, genetic counseling, speech pathology/audiology, and engineering

- Science writing opportunities - science and tech section of the college newspaper, *The Observer*; *Derech HaTeva, a Journal of Torah and Science*; publication of abstracts in *Women in Science*
- Develop leadership skills through participation in student-run clubs including, but not limited to:
 - Biology Club
 - Chemistry Club
 - Computer Science Club - a chapter of national ACM-W
 - Project Start
 - Pre-Med Club
 - Pre-Dent Club
 - Physical and Occupational Therapy Clubs
 - Physician Assistant Club
 - Nutrition Club
 - Nursing Club
 - Neuroscience Society
 - Public Health Club
 - Genetics Club
 - Medical Ethics Society
 - Engineering Club
 - Medical Explorers Club
- Scientific poster presentation contest and student presentations at monthly faculty-student meetings of SURGE (Student Undergraduate Research Group Exchange)
- *Torah U'Madda* presentations and seminars