

2013-2014 Outstanding Thesis Award Winners



A recent graduate of CSUSB's Master of Science program in Biology, Rosyli Reveron has already made important advancements in the realm of cancer research. So it comes as no surprise that her thesis, *Glioblastoma Multiforme Utilizes System Xc⁻ for Survival under Oxidative Stress and Promotes Chemoresistance*, earned her the 2014 Outstanding Thesis Award in the biological sciences, mathematical and physical sciences, life sciences and engineering category.

Glioblastoma Multiforme is a malignant brain tumor that resists further chemotherapy after new growth occurs. Rosyli's work demonstrated for the first time that increased levels of an antioxidant, system Xc⁻, protects the tumor against chemotherapy and radiation therapy. Identifying system Xc⁻ as one cause of resistance opens the door to more effective treatment.

Rosyli became interested in cancer research when she was 15, after losing a close friend to a brain tumor. "My research is aimed to find a cure and save someone the grief that comes from losing a family member to this disease," Rosyli said.

Rosyli is a California Institute of Regenerative Medicine (CIRM) Bridges Research Scholar; she also received an internship at the City of Hope Medical Center. Rosyli is currently teaching biology courses at Victor Valley Community College. She hopes to attend medical school at USC to continue her work in cancer research.



Stacy Bush, M.A. in Criminal Justice, focused her graduate work on unraveling the elusive communication networks of Al Qa'ida. She was chosen as the 2014 Outstanding Thesis Award winner in the humanities, social sciences, education, and business category for her thesis, *Drone Effects: Structural Change in Al Qa'ida Communications*. Stacy's research found that although US drone attacks were successful in killing some Al Qa'ida leaders, the insurgency adapted to the losses, while communications essentially remained operational.

"The focus of my work has been on systems and networks and how everything is interconnected," Stacy commented. In addition to her thesis on insurgent operations, Stacy has also studied the illicit art trade and white collar crime among corporate leaders, and has co-authored several journal articles on both subjects.

Stacy was recently hired by the San Bernardino County Probation Department as a statistical analyst, where she will be working on projects with the research unit and may continue to publish her work. She is considering returning to graduate school in the future. "Right now, I want to get a taste of the real world," Stacy said, "but I haven't ruled out a Ph.D."