2011 Gladys Anderson Emerson Scholarship Winner
Christina M. Chang

Christina M. Chang is an outstanding Chemistry major and Computer Science minor at Princeton University who has dedicated much of her undergraduate career toward diverse research experiences, ranging from computational genomics work to metabolomics research. Currently, Christina is conducting bioinorganic chemistry research under the guidance of Professor John T. Groves in the Princeton Chemistry Department. Her senior thesis will focus on the catalytic generation of chlorine dioxide by bio-inspired catalysts. She writes, "I hope to use chemistry to answer fundamental questions that are both scientifically interesting and relevant to today's societal problems. In this way, I will dedicate my life to contributing new knowledge and inspiring in others a similar scientific passion." In graduate school, Christina hopes to study and innovate artificial photosynthetic systems that may provide a renewable, storable energy resource. Christina brings her personal enthusiasm to her community and the wider world through chemistry outreach and public engagement efforts. Christina encourages others to pursue, appreciate, and understand science in a variety of contexts, including designing and teaching a science curriculum for at-risk middle school students and creating a podcast about her dye-sensitized solar cell research at the University of Edinburgh, Scotland. Christina has founded the Women in Science Colloquium to provide personal faculty mentoring relationships to students, and is also currently helping to found the Princeton University Chemistry Society, a Student Chapter of the American Chemical Society. Christina Chang is not only an accomplished scholar, but also she has all the makings of a distinguished scientist and professor - the whole package - intelligence, creativity, enthusiasm, and dedication. Her nominator, Professor Annabella Selloni of the Princeton Chemistry Department, writes: "Christina's cheerful spirit, her ability to work well with people of all ages and backgrounds, her love of all things science, and her determination to make a difference in the world propel her onward and upward."