

Education

- University of Michigan - Ann Arbor
○ B.S. in Chemistry
○ B.S. in Interdisciplinary Physics
Sept. 2016 - Present
- Harrison High School
○ International Baccalaureate Diploma Program
Sept. 2012 - May 2016

Research Experience

- University of Michigan Chemistry Department
○ Advisor: Prof. Stephen Maldonado
○ Sensitizing GaP photocathodes with CdSe quantum dots
Oct. 2016 - Present

Teaching and Work Experience

- Woodbrooke Hills Swim and Tennis Club
○ *Assistant Manager & Lifeguard*
June 2015 - Aug. 2016
- West Bloomfield Public Library
○ *Computer Science Seminar Instructor*
July 2016
- Project Vivace - Musical Performance for Hospital Patients
○ *Manager & Performer*
May 2013 - Jan. 2016

Skills

- Instrumentation: scanning electron microscopy (SEM), energy dispersive x-ray spectroscopy (EDS), nuclear magnetic resonance (NMR), UV-Visible spectroscopy, fluorescence emission spectroscopy, high-performance liquid chromatography (HPLC)
- Laboratory Techniques: inorganic air-free synthesis, electrochemistry, surface chemistry
- Software: Microsoft Excel, Matlab, Wolfram Mathematica
- Languages: English (fluency), French (intermediate fluency), Bulgarian (native fluency)

Publications

- Dikova, Desi; Sierra, Kaylie; Szeto, Fraco. "Maximum Heat Transfer by Liquids at Different Temperatures." *Wolfram Demonstrations Project*. Mar 2017.

Presentations

- Dikova, Desislava; MacInnes, Molly; Lee, Sudarat; Maldonado, Stephen. "Investigations into sensitizing GaP photocathodes with CdSe quantum dots." *APS Ohio-Region Section Conference, Miami University, OH*. Oct. 14 2017. Oral presentation.
- Dikova, Desislava; MacInnes, Molly; Lee, Sudarat; Maldonado, Stephen. "Investigations into sensitizing GaP photocathodes with CdSe quantum dots." *Fall Scientific Meeting of Midland Section of ACS, Saginaw Valley State University, MI*. Oct. 21 2017. Oral presentation.
- Dikova, Desislava; MacInnes, Molly; Lee, Sudarat; Maldonado, Stephen. "Investigations into sensitizing GaP photocathodes with CdSe quantum dots." *Inorganic Weekend in Ohio*

Conference, The Ohio State University, OH. Nov. 4 2017. Poster presentation.

- Awarded first place in undergraduate poster competition

Extracurriculars and Honors

- SWAM Club Swimming at the University of Michigan
 - *Competition Chair* Sept 2016 - Present
- National Merit Scholarship
 - *Finalist* Apr 2016
- Harrison High School Varsity Swim and Dive
 - *Team Captain* Mar 2012 - Nov 2015
- Harrison High School National Honor Society
 - *Chapter President* June 2014 - May 2016