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1991 May 28 Birthdate
USA Nationality
Single with no children
Graduate Student

Education

2015-Current PH.D OF CHEMISTRY. *Boston University, USA.*
Expected Graduation : 2019/5/19
2013-2015 B.S. OF CHEMISTRY. *Temple University, Philadelphia, USA.*
Graduation : 2015/5/8
2011-2013 A.S. OF SCIENCE. *Community College of Philadelphia, Philadelphia, USA.*
Graduation : 2013/5/4

Honors

2017 NSF GROW/JSPS FELLOW.
2015-Current NSF GRADUATE RESEARCH FELLOWSHIP.
2015 PECO SCHOLAR.
2015 FEYNMAN MEMORIAL SCHOLAR.
2014-2015 UNDERGRADUATE RESEARCH FELLOW, *Temple University.*
2014 DIAMOND SCHOLAR SUMMER FELLOW, *Temple University.*
2013 HELLENIC UNIVERSITY CLUB SCHOLAR.
2013 NSF RESEARCH EXPERIENCE FOR UNDERGRADUATES, *Boston University.*
2013 AHEPA SCHOLAR.
2013 COMMUNITY COLLEGE OF PHILADELPHIA VOLUNTEER SERVICE AWARD.

Service

2015-2016 WRITING MENTOR, BOSTON UNIVERSITY CHEMICAL WRITING PROGRAM.
2015-2016 HIGH SCHOOL SCIENCE OUTREACH INSTRUCTOR, BOSTON UNIVERSITY WOMEN IN CHEMISTRY.
2014-2015 SCIENCE INSTRUCTOR, TEENSHARP.
2013 CHEMISTRY TUTOR, *Community College of Philadelphia.*

Extracurricular Training

2017 FRONTEIRS IN COMPUTATIONAL BIOPHYSICS AND BIOCHEMISTRY, *RIKEN, Japan.*
2016 ERICE SCHOOL : EXPLORING AND QUANTIFYING ROUGH FREE ENERGY LANDSCAPES, *International School of Statistical Physics, Ettore Majorana Foundation and Centre for Scientific Culture, Erice, Sicily, Italy.*
2015 ALAN ALDA COMMUNICATING SCIENCE WORKSHOP, *Boston University, USA.*
2015 SCHOOL ON MOLECULAR DYNAMICS AND ENHANCED SAMPLING METHODS, *Institute for Computational Molecular Science, Temple University, USA.*

Presentations

- 2017** POSTER : “TEMPERING IN OPENMM AND GENESIS,” *Temple University; Current trends in molecular dynamics software design.*
- 2017** TALK : “CRITICAL INVESTIGATION OF FINITE SIZE AND CHOLESTEROL EFFECTS IN LIPID DOMAIN FORMATION,” *RIKEN, Japan; Boston University Chemistry Graduate Student Seminar Series.*
- 2016** POSTER : “EXPLORING PHASE SEPARATION AND DOMAIN FORMATION IN LIPID BILAYERS THROUGH MOLECULAR SIMULATION,” *Boston University Graduate Research Symposium; ACS 252nd National Meeting.*
- 2015** POSTER : “EXAMINING THE CONFORMATIONAL DYNAMICS OF THE N-TERMINAL REGION OF MDM2 USING MARKOV STATE MODEL APPROACHES,” *ACS 250th National Meeting.*
- 2015** TALK : “MICROSECOND SIMULATIONS OF MDM2 AND ITS COMPLEX WITH P53 YIELD INSIGHT INTO FORCE FIELD ACCURACY AND CONFORMATIONAL DYNAMICS,” *Temple University Undergraduate Research Forum and Creative Works Symposium.*
- 2014-2015** POSTER : “MICROSECOND SIMULATIONS OF MDM2 AND ITS COMPLEX WITH P53 YIELD INSIGHT INTO FORCE FIELD ACCURACY AND CONFORMATIONAL DYNAMICS,” *ACS Philadelphia Younger Chemists Committee Conference; Emory STEM Research Symposium.*
- 2013-2014** POSTER : “MOLECULAR DYNAMICS SIMULATIONS OF THE P53-MDM2 BINDING INTERFACE,” *ACS Philadelphia Younger Chemists Committee Conference; ACS 248th National Meeting.*

Publications

7. “Critical size dependence of domain formation observed in coarse-grained simulations of bilayers composed of ternary lipid mixtures,” G.A. Pantelopulos, T. Nagai, A. Bandara, A. Panahi, J. E. Straub, *Submitted* (2017).
6. “Bridging microscopic and macroscopic mechanisms of p53-MDM2 binding using molecular simulations and kinetic network models,” G. Zhou, G.A. Pantelopulos, S. Mukherjee, V. Voelz, *Submitted* (2016).
5. “Exploring the structure and stability of cholesterol dimer formation in multicomponent lipid bilayers,” A. Bandara, A. Panahi, G.A. Pantelopulos, J.E. Straub *J. Comp. Chem.* (2016).
4. “Specific binding of cholesterol to C99 domain of Amyloid Precursor Protein depends critically on charge state of protein,” A. Panahi, A. Bandara, G.A. Pantelopulos, L. Dominguez and J.E. Straub, *J. Phys. Chem. Lett.* **7**, 3535-3541 (2016).
3. “On the use of mass scaling for stable and efficient simulated tempering with molecular dynamics,” T. Nagai, G.A. Pantelopulos, T. Takahashi, J.E. Straub *J. Comp. Chem.* **27** 2017-2028 (2016).
2. “Markov models of the apo-MDM2 lid region reveal diffuse yet two-state binding dynamics and receptor poses for computational docking,” S. Mukherjee, G.A. Pantelopulos, V.A. Voelz *Sci. Rep.* **6** 31631 (2016).
1. “Microsecond simulations of mdm2 and its complex with p53 yield insight into force field accuracy and conformational dynamics,” G.A. Pantelopulos, S. Mukherjee, V.A. Voelz, *Proteins* **83** 1665-1676 (2015).