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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 : 2020/5/19
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

2018	RIKEN Short-Term International Program Associate.
2017	NSF GROW/JSPS Fellow.
2015-Current	NSF Graduate Research Fellowship.
2014	Diamond Scholar Summer Fellow, *Temple University.*
2013	NSF Research Experience for Undergraduates, *Boston University.*

Service and Teaching

2018-2019	Teaching Fellow, Boston University CH225 - Mathematical Methods for Chemists.
2016-2018	Graduate Fellowships Mentorship and Workshops, Boston University Chemistry Department.
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.

Presentations

2018	"Understanding an Intrinsically Disordered Membrane Protein in Alzheimer's Disease via Molecular Simulation," *RIKEN Summer School (Poster); Computational Biophysics at the Molecular and Meso Scales, ICISE Vietnam (Talk).*
2017	"Structure of APP-C99 1-99 and Implications for its Role in Amyloidogenesis," *Kyoto University (Talk).*
2017	"Role of cholesterol in ternary lipid membrane phase separation observed via coarse-grained simulations," *American Theoretical Chemistry Conference (Poster); Japanese Biophysical Society (Poster).*
2017	"Tempering in OpenMM and GENESIS," *Temple University Current Trends in Molecular Dynamics Software Design Workshop (Poster).*
2017	"Critical investigation of finite size and cholesterol effects in lipid domain formation," *RIKEN, Wako-shi (Talk); Boston University Chemistry Student Graduate Seminar Series; Nagoya University IGER Seminar Series (Talk).*
2016	"Exploring phase separation and domain formation in lipid bilayers through molecular simulation," *Boston University Graduate Research Symposium; ACS 252nd National Meeting (Poster).*
2015	"Examining the conformational dynamics of the N-terminal region of mdm2 using markov state model approaches," *ACS 250th National Meeting (Poster).*
2015	"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 (Talk).*
2014-2015	"Microsecond simulations of mdm2 and its complex with p53 yield insight into force field accuracy and conformational dynamics," *ACS Philadelphia Younger Chemists Committee Conference (Poster); Emory STEM Research Symposium (Poster).*
2013-2014	"Molecular Dynamics Simulations of the p53-MDM2 Binding Interface," *ACS Philadelphia Younger Chemists Committee Conference (Poster); ACS 248th National Meeting (Poster).*

Publications

* ≡ First author or equal to first author contributions

12. "Exploring the impact of line tension on the spatial localization of protein in phase-separated lipid bilayers," A. Bandara, A. Panahi, **G.A. Pantelopulos**, T. Nagai, J. E. Straub, *J. Phys. Chem. B*, *Submitted*

11. "Aerosol-OT Surfactant Forms Stable Reverse Micelles in Aploar Solvent in the Absence of Water," R. Urano, **G.A. Pantelopulos**, J. E. Straub, *J. Chem. Phys.* **14**, 149 (2019).

10. "Structural Role of Cholesterol in Complex Lipid Bilayer Phases Observed via MD Simulation," **G.A. Pantelopulos***, J. E. Straub, *Biophys. J.* **115**, 2167-2178 (2018).

9. "Characterization of dynamics and mechanism in the self-assembly of AOT reverse micelles," R. Urano, **G.A. Pantelopulos***, S. Song, J. E. Straub, *J. Chem. Phys.* **14**, 144901 (2018).

8. "Structure of APP-C99$_{1-99}$ and Implications for Role of Extra-Membrane Domains in Function and Oligomerization," **G.A. Pantelopulos**, J. E. Straub, D. Thirumalai, Y. Sugita, *Biochim. Biophys. Acta - Biomembranes* **1860**, 1698-1708 (2018).

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, *J. Chem. Phys.* **147** 095101 (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, *Biophys. J.* **113**, 785-793 (2017).

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.* **38**, 1479-1488 (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.* **37** 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).