

## SUMMARY

- Self-motivated problem solver and fast learner with 6 year experiences of question driven fundamental research in biochemistry with various instrumental technics.
- Able to leverage quantitative strengths analytical skills to solve complicated problems, advance scientific breakthroughs and pursue innovative development.
- Strong teamwork, communication and leadership skills. Founded one new student organization and leader of multiple organizations. Achieved in fund raising and successfully organized major events featured by local media.
- Fluent in English, Native in Mandarin

## EDUCATION

- Princeton University, Princeton, NJ, USA — Ph.D. in Chemistry, 09/2014(Expected)
- Princeton University, Princeton, NJ, USA — M.A. in Chemistry, 06/2010 (GPA 3.35/4.0)
- Nanjing University, Nanjing, Jiangsu, China — B.A. in Chemistry, 06/2007 (GPA 3.5/4.0)

## PROFESSIONAL EXPERIENCE

### Research Assistant, Princeton University, Department of Chemistry, — 09/2008 - Present

- Elucidated a novel mechanism of cytochrome c triggering intrinsic apoptosis. Developed florescent based assay to monitor conformation change of cytochrome c by interaction with artificial lipid membrane, and first discovered cytochrome c's unique geometric selectivity of lipids.
- Author of two scientific paper and hold of one patent
- Research technics includes: Artificial membrane assembly, Protein expression, purification and modification, Mutagenesis, Single molecule FRET, Protein Docking /Simulations, Activity/inhibition assays, Instrumentation skills (UV-Vis, Fluorescent spectroscopy, CD, NMR, FPLC, HPLC, GC, MS, Confocal microscopes, TIRF), Multiple softwares ( Origin, Pymol, Graphpad, Microsoft Office, Photoshop).
- Collaborated with multidisciplinary internal and external researchers with good communication skills and experiment record tracking.

### Assistant, Career Service of Princeton University, — 09/2013 - Present

- Coordinated multiple information sessions and job posing of major companies across industries.
- Demonstrated excellent customer service and effective time management while multi-tasking.

## PUBLICATIONS

- Chris L. Bergstrom, Paul A. Beales, Yang Lv, T. Kyle Vanderlick, and John T. Groves, Cytochrome c causes pore formation in cardiolipin-containing membranes. Proceedings of the National Academy of Sciences 2013 110 (16): 6269-6274
- Bo Yuan, Yang LV, Shuheng Li, Jian shen, Qiang Chen, Meng Zhao, Water-proofing match and its preparation method.(patent number: CN 100572344 C) 2009.12.23.
- Chaoying Yuan, Yang Lv, Chengjian Zhu, Synthesis of Chiral Calixarene-Like Salen Ligand and Application in Catalytic Asymmetric Friedel-Crafts Reaction of Aromatic Amines with Glyoxylate. Synlett 2006(8): 1221-1224

## SELECTED AWARDS

- Finalist at Columbia Graduate Case Competition (Top 4 out of 16 teams from premier universities. Developed a launching solution and price strategy of the Hyperloop on the east coast. Final result was presented to Mr. Ellen musk, 2013)
- 3rd prize of National College Student Scientific Entrepreneur Challenge (winner out of 3,000,000 participants, 2008)
- Dai Anbang's Award of Best Performance in Lab (2 awarded out of 350 participants, 2007)
- Silver medal of National College Chemistry Experiment Competition (out of 105 representatives from top 35 universities nation wide, 2006 )
- First Prize in National Biology Olympiad competition (winner out of 86,000 participants, 2002)