ZHAO SHIDI **—** Curriculum Vitae

Name Zhao ShiDi

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Scentific Education

2011— University diploma(Physics) Shang Hai JiaoTong University

Score

GRE 313/340(V 145 Q 168 W 3.0)

TOEFL 97/120(Reading 27 Listening 26 Speaking 23 Writing 21)

Comupter Skills

Master Matlab,C language, Gromacs(use for Molecular Dynamics Simulation), can use VMD and PyMOL

Experiment skill

CD Absorbance Fluorescence

Research Experiences

2013.02 — 2013.06

* joined one university PRP (particpation in research program) ‘*Effect of Finite Boundaries on Energy Spectru Two-dimensional gas of Massless Dirac Fermions: Application of WKB method’*

2013.03 — 2013.11

* member in Professor Liu, H.C.’s lab which is about QWIP(quantum well infrared photo-detector)
* learned how to use LIA and wire-bounder
* used cycle refirgerator to test the effect of THZ and MID-IR to devices in low temperature.

2013.11

* member in Professor J. Ulmschneider’s lab.
* learning molecular dynamics tutored by Ph.D. student YunKun Wang,and joined the program about antimicrobial peptides.

2014.10 — 2015.05

* Become a visiting researcher in John Hopkins University Martin Ulmschneider’s Lab for biophysics experiments skills and doing new project about kinase receptors insertion mechanism

Research Interests

* Biophysics
* Protein Folding
* Transmembrane protein and peptides insertion mechanism
* control of ion channel
* kinase receptors insertion mechanism
* How dimers and other helixs structures act on membrane.
* The mechanisms of how AMPs works to disrupt bacterias’ cell membranes
* peptides membrane insertion mechanism