

TIANYUE PENG

3225 Post Woods Dr Apt F · Atlanta, GA 30339 · (404) 747-9966 · pengtianyue@hotmail.com

OBJECTIVE

Seeking a full-time or intern Chemist position. (Willing to relocate.)

EDUCATION

Georgia Institute of Technology, Atlanta, GA

August 2012 - December 2014

B.S. in Environmental Engineering

Honor: Dean's List - Fall 2013, Spring and Fall 2014

Alfred University, Alfred, NY

August 2010 - May 2012

Double Major in Environmental Science and Chemistry

(Note: Transferred to Georgia Tech after May 2012)

Honor: 1836 Grant (\$5000 annually scholarship); Dean's List

SKILLS

Laboratory

Basic Lab Glassware & Equipment, IR, ICP/MS, GC/MS, HPLC, Zeta-Potential, Sample Measurement, Distillation, Dilution, Filtration, Extraction, Lab Safety, Field Sampling, Data Sheets Creating, Data Analyzing.

Softwares & Tools

MS Office Suite, MATLAB, LaTeX, Mac OS, Windows OS.

Communication

Fluent in English and Chinese, Technical Writing, Presentation, Team Meeting.

EXPERIENCE

Tri-Tech Infrastructural, LLC

July 2014 - August 2014

Environmental Engineer Intern

Knoxville, TN

- Involved in Sipchem Wastewater Treatment Plant Design Project that focused on contaminate remediation of wastewater exported from a petrochemistry company.
- Analyzed flow rate data sheets and calculated chemical concentration data using Mass Balance method.
- Created technical specification data sheets for valves and instruments.

Georgia Institute of Technology

December 2013 - May 2014

Undergraduate Research Assistant

Atlanta, GA

- Assisted with the exploration of the catalysis of graphene-based material.
- Synthesized graphene oxide (GO) and reduced GO from graphite with Hummer's Method.
- Operated FTIR to gather electrochemical performance data of GO and rGO.
- Operated HPLC, ICP/MS and Zeta-Potential to analyze the productions of reactions that under the catalysis of GO and rGO.

Alfred University

October 2010 - December 2011

Undergraduate Research Assistant

Alfred, NY

- Assisted with chemistry experiments about ring-closing and cross-metathesis reaction using Grubb's catalyst.
- Operated NMR and GC/MS to analyze the production and to obtain reproducible kinetics of reactions.

SIDE PROJECTS

Remediation of Contaminated Groundwater at a Confidential Site in Wyoming

December 2014

- Senior Design project that required contaminate remediation of trichloroethylene (TCE), carbon tetrachloride (CCl₄) and hexavalent chromium in wastewater. (Sponsored by CH2M-HILL.)
- Designed RCF system (Reduction/Coagulation/Filtration) for hexavalent chromium treatment and air stripping for TCE and CCl₄ treatment.

Analysis of Water Quality in Alfred, NY

May 2011

- Class project that required assessing water quality based on the bacteria amount in a main stream of the town.
- Used indigo dye and petri dish to grow and measure coliform bacteria in water samples collected from different location of the stream.