

LIU Yang

Entry-level Chemist

An NTU chemistry graduate with experience of conducting 3 research projects as part of my coursework, well versed in theoretical and practical aspects of wet chemistry, analytical methods, organic reactions, etc. IT-savvy with a “can-do” attitude.

EDUCATION

Nanyang Technological University

Singapore

BS in Chemistry

Aug 2011 – Aug 2015

- GPA: 4.45/5.0
- Went through a 1.5-year bridging course on English presentation and writing.

COURSEWORKS

Enzyme-responsive Micelles for Drug Delivery

Singapore

Honour's Project

Jan 2015 – Apr 2015

- Attempted to synthesize an amphiphilic molecule based on a γ -glutamyltranspeptidase (GGT) probe, a well-established cancer imaging agent. The molecule was supposed to form micelles that undergo cleavage in GGT-rich malignant tissues to deliver anti-cancer drugs.

PH-responsive Micelles for Drug Delivery

Singapore

Small Honour's Project

Aug 2014 – Dec 2014

- Synthesized fluorescent amphiphilic molecules that were able to form micelles that break in tumor acidic environment to deliver anti-cancer drugs.
- Imaged the nanostructures with TEM. Determined CMC and pKa with UV-Vis and fluorescence spectroscopy.

Study of Metal Cluster Fluxionality by VT-NMR

Singapore

Summer Research

May 2013 – Aug 2013

- Synthesized phosphine-substituted ruthenium clusters that showed metal-metal bond fluxionality.
- Carried out variable temperature ^1H and ^{31}P NMR to determine the rate constant of the fluxionality process through lineshape analysis.

CCA

Publicity Officer

Singapore

NTU Astronomical Society

Aug 2011 – Jul 2012

- Designed publication posters and brochures with Photoshop and Indesign. Worked with other members to organize and promote stargazing events.

TECHNICAL STRENGTH

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| • Technical | Wet Chemistry, Analytical Techniques, etc |
| • IT-related | Excel VBA, Photoshop |
| • Language | Chinese (Native), English (Professional) |