BRANDON JON YIK

Contact Information

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Education

Georgia Institute of Technology, Atlanta, GA
Ph.D., Inorganic Chemistry — 2016 – Present

University of Michigan, Ann Arbor, MI
M.S., Inorganic & Materials Chemistry — 2015 – 2016
B.S. in Chemistry — 2012 – 2015

Research Experience

Georgia Institute of Technology — 2016 – Present
Advisor: **Prof. Henry S. La Pierre**
Research Area: *f*-element photochemical photosensitizers

University of Michigan — 2013 – 2016
Advisor: **Prof. Theodore Goodson III**
Research Area: Dielectric and photophysical properties of organic/inorganic hybrid nanocomposites and hyperbranched copper phthalocyanine polymers

Hope College — Summer 2011
Advisors: **Profs. Brian Yurk & Aaron Putzke**
Research Area: Mathematical modeling and experimental investigation of *Callosobruchus maculatus* life cycles in a changing climate

Refereed Journal Publications

(1) New Approaches for Energy Storage in Hyperbranched Polymers.
Brandon J. Yik, Meng Guo, Young Kwon, Theodore Goodson III. *J. Phys. Chem. C* **2017**, *121*, 7108-7122.

Conference Presentations

(6) "Energy Storage Devices with Organic/Hybrid Macromolecular Materials."
Brandon J. Yik, Theodore Goodson III. Presented at the University of Michigan American Chemical Society Student Chapter Undergraduate Fall Conference, Ann Arbor, MI, October 3, 2015.

- Best poster/oral presentation award

(5) "Energy Storage Devices with Organic/Hybrid Macromolecular Materials."
Brandon J. Yik, Theodore Goodson III. Presented at the Summer Undergraduate Research Symposium, Notre Dame, IN, August 1, 2014.

(4) "Energy Storage Devices with Organic/Hybrid Macromolecular Materials."
Brandon J. Yik, Theodore Goodson III. Presented at the BASF NA 2020 Innovation Team Workshop, Ann Arbor, MI, June 26, 2014.

(3) "Investigations of High Dielectric Properties of Polymers."
Brandon J. Yik, Theodore Goodson III. Presented at the University of Michigan American Chemical Society Student Chapter Undergraduate Fall Conference, Ann Arbor, MI, October 26, 2013.

(2) "Investigations of High Dielectric Properties of Polymers."
Brandon J. Yik, Theodore Goodson III. Presented at the Undergraduate Research Opportunity Program (UROP) Summer Research Symposium, Ann Arbor, MI, August 1, 2013.

(1) "*Callosobruchus maculatus* Phenology Modeling: Predicting Insect Development and Oviposition Rates in Changing Climates."
Brandon J. Yik, Anna M. Polasek, Aaron P. Putzke, Brian P. Yurk. Presented at the Research Experiences Across Cultures at Hope College (REACH) Symposium, Holland, MI, July 22, 2011.

Awards & Honors

At Georgia Tech:

William H. Cherry Emerson Fellowship	2016-2017

At Michigan:

Chemistry Undergraduate Research Fellowship	2015
Margaret & Herman Sokol Endowment Award	2014
University Honors	2014
M-STEM Scholarship Award	2013-2014
Undergraduate Research Opportunity Program Fellowship	2013

Professional Memberships

American Chemical Society 2015 – Present

- Referee for: Journal of Physical Chemistry

American Association for the Advancement of Science 2016 – Present

Professional Service

Office of New Student Programs, University of Michigan
Summer Orientation Sessions, Graduate Student Instructor Presenter
Understanding the Roles of a Graduate Student Instructor 2016

College of LSA Honors Program, University of Michigan
Admissions Reviewer 2016

Teaching Experience

At Georgia Tech as a TA (Teaching Assistant):

- Chemistry 2380: Synthesis I
  Organic Synthesis, Lab
  - Spring 2017

- Chemistry 3380: Synthesis II
  Advanced Inorganic/Organic Synthesis, Lab
  - Fall 2016

At Michigan as a GSI (Graduate Student Instructor), UIA (Undergraduate Instructional Assistant; Undergraduate GSI Equivalent), or SGF (Study Group Facilitator):

- Chemistry 106: Basics of Biomolecules
  Biomolecules, Recitation/Lab
  - Summer 2015 (AF), Summer 2014 (AF)
- Chemistry 210: Structure & Reactivity I
  Organic Chemistry I, Recitation
  - Spring 2016 (GSI)
- Chemistry 211: Investigations in Chemistry
  Organic Chemistry I, Lab
  - Fall 2015 (GSI), Winter 2015 (AF), Fall 2014 (AF)
- Chemistry 260/261: Chemical Principles/Intro to Quantum
  Physical Chemistry I, Study Group
  - Winter 2015 (SGF), Fall 2014 (SGF), Winter 2014 (SGF), Fall 2013 (SGF)
- Honors 232: Honors Core in Natural Science
  Deep Time: The Science of Origins, Recitation
  - Winter 2015 (GSI)
- University Courses 170: Case Studies in Interdisciplinary Science
  Environmental Issues in Lake Erie, Lab
  - Summer 2016 (GSI)