

CURRICULUM VITAE

1. Christopher J. Wright

2. Address:

a. Mailing Address

Christopher J. Wright
541 Main Street
Room 306
Chemical Engineering
University of South Carolina
Columbia, SC 29208

3. Education:

- a. University of South Carolina, Columbia: PhD in Chemical Engineering, expected 2019
- b. Brown University Class of 2014 Bachelor of Science with Honors in Chemical Physics
- c. South Side High School Class of 2010 with International Bachelorette diploma

4. Professional Appointments:

- a. Researcher at the University of South Carolina with Prof. Xiao-Dong Zhou on National Science Foundation Research Experience for Undergraduates grant, May 2011-August 2011
 - i. National Science Foundation Research Experience for Undergraduates 2011 University of South Carolina Department of Chemical Engineering Second Prize- Oral Presentation
- b. Researcher at Brown University with Prof. Shouheng Sun, Jan 2012-May 2014
- c. Researcher at Brookhaven National Lab with Dr. Sanjit Ghose on Science Undergraduate Laboratory Internship grant June 2013-August 2012
- d. Software Developer for the National Synchrotron Light Source II at Brookhaven National Lab with Dr. Sanjit Ghose May 2014-August 2014

5. Peer Reviewed Work:

a. Publications:

- i. Zhu, W.; Michalsky, R.; Metin, O.; Lv, H.; Guo, S.; Wright, C. J.; Sun, X.; Peterson, A. A.; Sun, S. *J. Am. Chem. Soc.* **2013**, *135*, 16833–16836. Monodisperse Au Nanoparticles for Selective Electrocatalytic Reduction of CO₂ to CO.

b. Presentations:

- i. “Electrocatalysts for Conversion of CO₂ to Hydrocarbons” 2011 Electrochemical Society National Meeting
- ii. “Elucidation of NiPd Nanoparticle Catalyst Structure during Oxidative and Reductive Annealing via X-Ray Total Scattering and PDF” 2014 NSLS/CFN User Meeting

- iii. “Novel Monte Carlo Based Solution of Nanoparticle Structures from Atomic Pair Distribution Functions and Force Field Models” 2015 NSLS/CFN User Meeting

c. Beamtime Proposals:

- i. PDF analysis of palladium bimetallic nanoparticles for catalysis 2013-2014 NSLS beamtime at X-7B, Principle Investigator

d. Research in Progress:

- i. Investigation of nanoparticle structural degradation during electrochemical cycling via high energy x-ray total scattering and atomic pair distribution function analysis.

6. Service

a. To the University:

- i. Co-Chair of the Brown University Chemistry Department Undergraduate Group
- ii. A Day on College Hill STEM Chemistry panelist
- iii. University of South Carolina Electrochemical Society Student Chapter President

b. Outreach

- i. Presenter in Brown University “Night of Chemistry” demonstration lecture
- ii. Master of Ceremonies and organizer, Brown University “Chemistry: Believe it or Not” demonstration lecture
- iii. Brookhaven National Lab, National Synchrotron Light Source “Science Sunday” renewable energy presenter and facility tour guide
- iv. Brown science conference at Vartan Gregorian Elementary School, Brown-Yale CCI presenter “The Colorful Chemistry of Electricity”
- v. Judge at Dutch Fork High School Research Symposium 2014

7. Academic Honors:

CRC Prize (Dept. of Chemistry, Brown), 2012

Junior Prize in Chemical Physics (Dept. of Chemistry, Brown), 2013

Sigma Xi, 2014

Leallyn B. Clapp Outstanding Thesis in Chemical Physics Prize (Dept. of Chemistry, Brown), 2014

American Chemical Society Undergraduate Award in Inorganic Chemistry 2014

Integrative Graduate Education and Research Traineeship (IGERT) Fellow at the University of South Carolina 2014-2019

Presidential Fellow at the University of South Carolina 2014-2018

NSLS/CFN User Meeting Student Poster Scholarship 2014, 2015

8. Professional Societies:

American Chemical Society

Electrochemical Society

9. CV Updated: May 7, 2015