Samantha J. Connelly Robinson

ACADEMIC APPOINTMENT		CONTACT INFORMATION			
	Seattle Pacific University Assistant Professor of Chemistry September 2015 - Present	Office: Email: Phone:	Eaton Hall #334 srobinson@spu.edu (206) 286 - 7355		
EDUCATI	ON				
	Ph.D., Inorganic Chemistry	University of Washington		2009 - 2014	
	B.S., Chemistry, Honors	University of Iowa		2005 - 2009	
RESEARC	H EXPERIENCE				
	Principal Investigator	Dept. of Chemistry & Biochemistry Seattle Pacific University		2015 - Present	
	Project goals for the developing research program include: (1) Exploring O ₂ reactivity of metal complexes with redox-active ligands (2) Elucidating the mechanism of hydrogenation catalysis with first-row metals				
	Undergraduate student researchers have presented results at a summer research symposium.				
	Post-doctoral Research Associate	Institute for Integrated Catalysis Pacific Northwest National Lab		2014 - 2015	
	With application in sustainable energy storage, res (1) Hydride transfer reactions for t (2) Kinetics of electro- and thermo				
	To date, results have been reported in 2 first author peer-reviewed publications				
	Graduate Student Researcher	Heinekey Research Group University of Washington		2010 - 2014	
	Studies were focused on the synthesis & spectroscopic investigation of: (1) Molecular dihydrogen and silane complexes of various transition metals (2) Electrophilic silylium {R ₃ Si] ⁺ and stannylium [R ₃ Sn] ⁺ coordination chemistry Work generated 3 peer-reviewed, first author publications and Ph.D. dissertation				
	Undergraduate Student Researcher	Messerle Re University o	esearch Group of Iowa	2008 - 2009	
	Directed toward biomedical imaging applications, specific aims included: (1) Aqueous preparation of crystalline lanthanide cluster compounds				
	(2) Solid-state characterization of discrete luminescent nano-materials Synthesis contributed to 2 posters for ACS meetings and culminated in an Honors thesis				

TEACHING EXPERIENCE

Professor

SPU CHM 1211: General Chemistry I (Lecture & Lab)

Focused on atomic and molecular structure, reaction stoichiometry, and solution and gas phase chemistry

Winter 2017	
Autumn 2016	

SPU CHM 1213: General Chemistry III (Lecture) & CHM 2213: Inorganic Qualitative Analysis (Lab)

Winter 2016 Autumn 2015

Topics include electrochemistry, nuclear chemistry, and an introduction to coordination chemistry

Spring 2017

Spring 2016

SPU CHM 4542: Transition Metals (Upper Division Lecture Course)

Inorganic coordination chemistry with emphasis on the kinetics and thermodynamics of catalytic cycles

Spring 2016

SPU CHM 3540: Inorganic Chemistry (Upper Division Lecture & Lab)

Winter 2017

Teaching Assistant

UW CHEM 142: General Chemistry I (Lecture & Lab)

1 Quarter (Lead TA)

UW CHEM 152: General Chemistry II (Lecture & Lab)

3 Quarters (1 Quarter as Lead TA)

UW CHEM 162: General Chemistry III (Lecture & Lab)

5 Quarters (4 Quarters as Lead TA)

UW CHEM 312: Inorganic Chemistry (Lecture)

2 Quarters

UIOWA CHEM 4.012: Principles of Chemistry II (Lab)

1 Semester

Volunteer Instructor

University of Washington Center for Teaching & Learning

- Facilitator for "microteaching" workshops
- Being an Research Assistant in the Physical Sciences
- Lab TA The first day and beyond

AWARDS

•	UW Department of Chemistry Graduate Student Merit Fellowship	2013 - 2014
•	UW Department of Chemistry Travel Award Awarded to present graduate research at undergraduate institution	
•	UW Department of Chemistry Outstanding Teaching Assistant Award	2012 - 2013
•	University of Iowa Donald J. & Margaret A. Burton Scholarship Annual award to a chemistry major with outstanding academic achievement	Spring 2008
•	University of Iowa Dean's Scholarship	2005 - 2009
•	University of Iowa Provost's Award	2005 - 2009
•	University of Iowa William & Effa McMeans Scholar	2005 - 2009
•	University of Iowa National Merit Scholarship Award	2005 - 2009
POSTERS	S & PRESENTATIONS	
•	Natural Sciences Capstone Lecture – Seattle Pacific University	October 2016
	Hydrogen: Can it really power the planet?	
•	Seattle Pacific University Summer Research Symposium	August 2016
	<i>O</i> ₂ reactivity of first-row transition metal complexes with synthesized iminopyridine ligands Undergraduate Students Symone Tran & Jonathan Corcoran	
•	Natural Sciences Capstone Lecture – Seattle Pacific University	May 2015
	Small Molecules & Transition Metals: Studying Catalytic Systems with Energy Applications	
•	Gordon Research Seminar & Conference: Inorganic Chemistry	June 2014
	Chairperson, Gordon Research Seminar on Inorganic Chemistry Poster: <i>Studies of the Reactivity between Small Molecules & Transition Metals</i>	
•	Puget Sound Women Chemists Retreat: Pack Forest, WA	May 2013
	Poster: Complexation of H ₂	
•	University of Iowa Inorganic Seminar	March 2013
	Complexation and Activiation of Dihydrogen	
•	Gordon Research Seminar & Conference: Inorganic Chemistry – Biddeford ME	June 2012
	Poster: Generation of a Ni ^{II} Dihydrogen Complex (${}^{Bu}PCP$)Ni(H_2) ⁺ using (Et ₃ Si) ₂ H ⁺	
•	British Columbia Inorganic Discussion Weekend (IDW) – Quest University BC	May 2012
	Poster Award: <i>Generation of a Ni^{II} Dihydrogen Complex using (Et₃Si)₂H</i> ⁺	
•	American Chemical Society (ACS) Regional Meeting – Iowa City IA	October 2009
	Poster: <i>Ligand or Halide Template-Controlled Formation of Polynuclear Lanthanide(III) Clusters</i> David A. Rotsch, Samantha J. Connelly, Jessica Clark, Todd Domeyer, Dale Swensc	on, Louis Messerle
•	American Chemical Society (ACS) National Meeting – Washington DC	August 2009
	Poster: Halide-templated and halide-free polylanthanide(III) α -amino acid complexes David A. Rotsch, Samantha J. Connelly, Michael Moriarty, Jessica Clark, Dale Swen	son, Louis Messerle

PEER-REVIEWED PUBLICATIONS

- (6) Hydride and dihydrogen complexes of earth abundant metals: structure, reactivity, and applications to catalysis Samantha J. Connelly Robinson, D. Michael Heinekey Chemical Communications, DOI: 10.1039/C6CC07529K
- (5) Solvent influence on the thermodynamics for hydride transfer from bis(diphosphine) complexes of nickel Samantha J. Connelly Robinson, Christopher M. Zall, Deanna L. Miller, John C. Linehan, Aaron M. Appel Dalton Transactions, 2016, 45, 10017-10023. DOI: 10.1039/C6DT00309E
- (4) Characterization of a palladium dihydrogen complex
 Samantha J. Connelly, Andrew G. Chanez, Werner Kaminsky, D. Michael Heinekey
 Angewandte Chemie, Int. Ed., 2015, 54, 5915-5918. DOI: 10.1002/anie.201412076
- (3) Predicting the reactivity of hydride donors in water: thermodynamic constants for hydrogen Samantha J. Connelly, Eric S. Wiedner, Aaron M. Appel Dalton Transactions, 2015, 44, 5933-5938. DOI: 10.1039/C4DT03841J
- (2) Structure and solution reactivity of (triethylsilylium)triethylsilane cations Samantha J. Connelly, Werner Kaminsky, D. Michael Heinekey Organometallics, 2013, *32*, 7478-7481. DOI: 10.1021/om400970j
- Synthesis, structure, and reactivity of a nickel dihydrogen complex
 Samantha J. Connelly, Amanda C. Zimmerman, Werner Kaminsky, D. Michael Heinekey Chemistry - A European Journal, 2012, 18, 15932-15934. DOI: 10.1002/chem.201203675