

SARAH ALLEC

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EDUCATION

University of California Riverside

Ph.D. in Materials Science & Engineering, 3.96 GPA

Concentration: Computational Materials Science & Engineering

Exp. 2020

Advisor: Dr. P. Alex Greaney

M.S. in Materials Science & Engineering, 3.96 GPA

2018

Concentration: Computational Materials Science & Engineering

Advisor: Dr. Bryan M. Wong

B.S. in Mathematics (Applied), 3.97 GPA, Summa cum laude

2015

Concentration: Physics

PUBLICATIONS

Sarah I. Allec, Niranjana V. Ilawe, and Bryan M. Wong, "Unusual Bandgap Oscillations in Template-Directed π -Conjugated Porphyrin Nanotubes." *Journal of Physical Chemistry Letters*, **7**, 2362 (2016).

Sarah I. Allec and Bryan M. Wong, "Inconsistencies in the Electronic Properties of Phosphorene Nanotubes: New Insights from Large-Scale DFT Calculations." *Journal of Physical Chemistry Letters*, **7**, 4340 (2016).

Yue Cao, Timothy G. Morrissey, Eric Acome, Sarah I. Allec, Bryan M. Wong, Christoph Keplinger, and Chao Wang, "A Transparent, Self-Healing, Highly Stretchable Ionic Conductor." *Advanced Materials*, **29**, 1605099 (2017).

Yue Cao, Haiping Wu, Sarah I. Allec, Bryan M. Wong, Dai-Scott Nguyen, and Chao Wang, "A Highly Stretchy, Transparent Elastomer with the Capability to Automatically Self-Heal Underwater." *Advanced Materials*, **30**, 1804602 (2018).

Sarah I. Allec, Anshuman Kumar, and Bryan M. Wong, "Linear-Response and Real-Time, Time-Dependent DFT for Predicting Optoelectronic Properties of Dye-Sensitized Solar Cells." *Dye Sensitized Solar Cell Mathematical Modelling, Optimization and Design*, 171 (2019).

Sarah I. Allec, Yijing Sun, Jianan Sun, Chia-en A. Chang, and Bryan M. Wong, "Heterogeneous CPU+GPU-Enabled Simulations for DFTB Molecular Dynamics of Large Chemical and Biological Systems." *Journal of Chemical Theory and Computation*, **15**, 2807 (2019).

AWARDS

<i>NSF Graduate Research Fellowship, UC Riverside</i>	2017
<i>NASA MIRO FIELDS Graduate Student Fellowship, UC Riverside</i>	2016
<i>Best Poster Presentation, UC Riverside Undergraduate Research Symposium</i>	2015
<i>Undergraduate Research Mini-grant, UC Riverside</i>	2015
<i>Dean's Academic Distinction Award, UC Riverside</i>	2012 – 2015
<i>Regent's Scholarship, UC Riverside</i>	2011

PROFESSIONAL SOCIETY MEMBERSHIPS

American Chemical Society
 American Physical Society
 American Association for the Advancement of Science

LEADERSHIP EXPERIENCE

AWIS UCR Co-President	2019-Present
Set goals, vision, and direction for AWIS UCR	
AWIS UCR Treasurer	2018-2019
Managed organization's finances through budgeting and allocation of funds	
School on Wheels Tutor	2018-Present
Serve as a positive role model to provide consistency and educational assistance to homeless students in Riverside	
FIRST LEGO League Coach	2015-2016
Mentored a group of 7 middle school students in robot design and programming	
Supplemental Instruction Mentor, UC Riverside Academic Resource Center	2014-2015
Mentored a group of 7 Supplemental Instruction Leaders and organized new employee training	
Supplemental Instruction Leader, UC Riverside Academic Resource Center	2013-2015
Facilitated weekly study sessions for historically difficult courses	