

Curriculum Vitae

Roger Shek

Work Address:

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Education:

2013 - 2019 Ph.D. in Biochemistry and Structural Biology. Stony Brook University, NY

2008 - 2013 B.A. in Biology (minor CHEM). University of Hawaii, Manoa

Professional Experience:

2014 - 2019 Graduate Research Assistant (PI: Dr. Jarrod French)
Department of Biochemistry and Structural Biology
Stony Brook University

2013 - 2014 Rotation Student (PI: Dr. Elizabeth Boon, Dr. Peter Tonge)
Department of Biochemistry and Structural Biology
Stony Brook University

2011 - 2013 Undergraduate Research Assistant (PI: Dr. David Christopher)
Department of Molecular Biosciences and Bioengineering
University of Hawaii, Manoa

2011 REU Student (PI: Dr. Richard Quinn)
SETI Institute, Mountain View, CA

Honors and Awards:

2016 - 2017 Departmental Training Grant Fellowship (NIH T32)

2013 Phi Beta Kappa

2013 University of Hawaii UROP Fellowship

2008 - 2013 Dean's List

Service:

2017 - 2018	Graduate Student Organization Senate Speaker
2016 - 2019	Stony Brook Integrative Structural Biology Organization (Founder, President-2016, webmaster-2017)
2015 - 2017	Graduate Student Organization Department Senator (Serves on University Senate Research Committee, Administrative Review Committee, and University Affairs)
2008 - 2010	Volunteer (Fleetwing) The Queen's Medical Center, Honolulu, Hawaii

Teaching Activities:

Fall 2014	Stony Brook. Graduate Teaching Assistant, Biochemistry Lab
Spring 2014	Stony Brook. Graduate Teaching Assistant, General Biology Lecture
Fall 2010	Manoa. Undergraduate Teaching Intern, General Biology Lab
2009 - 2011	Online Tutor, UH Online Learning Academy

Coursework:

2017	Rapidata workshop on Protein X-ray Crystallography (SSRL)
2016	BioSAXS Course at APS
2016	SSRL SAXS Workshop

Oral Presentations:

2013	UROP Spring Symposium CTAHR Student Research Symposium
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Publications:

1. **Shek, R.**, Hilaire, T., Sim, J., and French, J. B. (2019) Structural determinants for substrate selectivity in guanine deaminase enzymes of the amidohydrolase superfamily, *Biochemistry* 58, 3280-3292
2. **Shek, R.**, Dattmore, D. A., Stives, D. P., Jackson, A. L., Chatfield, C. H., Hicks, K. A., and French, J. B. (2017) Structural and functional basis for targeting *Campylobacter jejuni* agmatine deiminase to overcome antibiotic resistance, *Biochemistry* 56, 6734-6742
3. Yuen, C. Y., **Shek, R.**, Kang, B.-H., Matsumoto, K., Cho, E. J., and Christopher, D. A. (2016) Arabidopsis protein disulfide isomerase-8 is a type I endoplasmic reticulum transmembrane protein with thiol-disulfide oxidase activity, *BMC plant biology* 16, 181.

4. Matarlo, J. S., Evans, C. E., Sharma, I., Lavaud, L. J., Ngo, S. C., **Shek, R.**, Rajashankar, K. R., French, J. B., Tan, D. S., and Tonge, P. J. (2015) Mechanism of MenE inhibition by acyl-adenylate analogues and discovery of novel antibacterial agents, *Biochemistry* 54, 6514.