Shane P. Stahlheber

CONTACT INFORMATION

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Anaheim, California 92806

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ACADEMIC INTERESTS

Computational science, physics, super-resolution microscopy, and mathematics.

EDUCATION

California Polytechnic State University, Pomona, California

B.S., Physics major, Computer Science minor, Cum Laude, March 2015

Fullerton College, Fullerton, California

G.E. certification, May 2010

EMPLOYMENT

Undergraduate Research Assistant

Cal Poly Pomona Department of Physics and Astronomy, July 2011-December 2013

PUBLICATIONS

Ted Yoo, Jonathan Tran, *Shane Stahlheber*, Carina Kaainoa, Kevin Djepang, Alex Small (2014): **Site percolation on lattices with low average coordination numbers**. Journal of Statistical Mechanics.

Alex Small, *Shane Stahlheber* (2014): **Fluorophore localization algorithms for super-resolution microscopy**. Nature Methods.

Jonathan Tran, Ted Yoo, *Shane Stahlheber*, Alex Small (2013): **Percolation thresholds on three-dimensional lattices with three nearest neighbors**. Journal of Statistical Mechanics.

Rebecca Starr, *Shane Stahlheber*, Alex Small (2012): **Fast maximum likelihood algorithm for localization of fluorescent molecules**. Optics Letters.

PRESENTATIONS

Alex Small, *Shane Stahlheber*, Rebecca Starr (2012): **Benchmarking QuickPALM and Other Molecule Localization Software for Super-Resolution Microscopy**. Biophyisical Society 56th Annual Meeting, February 29, 2012, (poster).

AWARDS AND SCHOLARSHIPS

Awarded the **Microscopy Society of America Undergraduate Research Scholarship** for research involving analysis of super-resolution localization microscopy research, conferred June, 2012

Awarded the **Betty P. Ribal Mathematics Scholarship** for "outstanding acheivement in the field of Mathematics", conferred by the Mathematics and Computer Science Faculty of Fullerton College, May 4, 2010

COMPUTER SKILLS

Languages: C, C++, Python, Java, OpenCL/CUDA, LaTeX, Mathematica.