Shane P. Stahlheber

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Academic Interests

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

Education

California Polytechnic State University, Pomona, California

B.S. in progress, Physics major, Computer Science minor, August 2010 (expected graduation date: 2014)

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.