Stephanie C. Weber	202A Daly Science Center 500 El Camino Real	
Adjunct Lecturer Department of Biology Santa Clara University	Santa Clara, CA 95053 (408) 551-3438 sweber@scu.edu http://stephweber.net	
Education		
Ph.D. Biochemistry, Stanford University	2011	
B.S. Biology, B.S. Chemistry, summa cum laude, Duke Universit	zy 2006	
Research Experience		
Postdoctoral fellow with Cliff Brangwynne, Princeton University An intracellular phase transition couples nucleolar size with in early C. elegans embryos		
Graduate student with Julie Theriot, Stanford University Macromolecular motion in vivo: anomalous diffusion throug "active" viscoelastic medium	2007-2011 gh an	
Undergraduate student with Arno Greenleaf, Duke University FF Domains and the binding of PCAPs to the carboxy term domain of RNA polymerase II	2005-2006 pinal	
Summer student with Kerry O'Banion, University of Rochester The use of RNA interference to elucidate the role of mPGE $PGE2$ biosynthesis	2004 ES-1 in	
Undergraduate student with Steve Haase, Duke University The effect of CLB6 on population doubling time in Sacchard cerevisiae	2003-2005 omyces	
Honors, Awards and Fellowships		
Damon Runyon Postdoctoral Fellowship	2012-2015	
Jane Coffin Childs Memorial Fund Postdoctoral Fellowship (decl	lined) 2012	
Life Sciences Research Foundation Postdoctoral Fellowship (decl	lined) 2012	
Bioengineering Outstanding Teaching Assistant Award	2011	
Harold M. Weintraub Graduate Student Award National award recognizing outstanding achievement in grad studies in the biological sciences	2011 luate	

NSF Graduate Research Fellowship	2008-2011
Graduation with Distinction in Biology, Chemistry	2006
Faculty Scholar Award Highest honor bestowed upon a Duke undergraduate recognizing intellectual leadership and scholarly accomplishment	2005
Phi Beta Kappa	2005
Deans' Summer Research Fellowship	2005
GEBS/NSF REU Summer Scholars Program	2004
Howard Hughes Research Fellows Program	2003

Publications

- Berry, J. M.*, **Weber, S. C.***, Vaidya, N., Haataja, M. and Brangwynne, C. P. (2015) RNA transcription modulates phase transition-driven nuclear body assembly, *Proceedings of the National Academy of Sciences*, 112, E5237. *Co-first authors.
- Weber, S. C., and Brangwynne, C. P. (2015) Inverse size scaling of the nucleolus by a concentration-dependent phase transition, *Current Biology*, 25, 641.
- Weber, S. C., and Brangwynne, C. P. (2012) Getting RNA and protein in phase, *Cell*, 149, 1188.
- Weber, S. C., Thompson, M. A., Moerner, W. E., Spakowitz, A. J. and Theriot, J. A. (2012) Analytical tools to distinguish the effects of localization error, confinement and medium elasticity on the velocity autocorrelation function, *Biophysical Journal*, 102, 2443.
- Weber, S. C., Spakowitz, A. J. and Theriot, J. A. (2012) Nonthermal ATP-dependent fluctuations contribute to the *in vivo* motion of chromosomal loci, *Proceedings of the National Academy of Sciences*, 109, 7338.
- Weber, S. C., Theriot, J. A. and Spakowitz, A. J. (2010) Subdiffusive motion of a polymer composed of subdiffusive monomers, *Physical Review E* 82, 011913.
- Weber, S. C. and Theriot, J. A. (2010) Mu gets in the loop, Molecular Cell 39, 1.
- Weber, S. C., Spakowitz, A. J. and Theriot, J. A. (2010) Bacterial chromosomal loci move subdiffusively through a viscoelastic cytoplasm, *Physical Review Letters* 104, 238102.

Invited Talks

- Weber, S. C. and Brangwynne, C. P. (2014) Nucleolar assembly and growth are governed by a concentration-dependent phase transition, *American Society for Cell Biology*, Annual Meeting.
- Weber, S. C. and Brangwynne, C. P. (2014) Inverse size scaling of the nucleolus by a concentration-dependent phase transition, *Biophysical Society*, Disordered Motifs and Domains in Cell Control.
- Weber, S. C. and Brangwynne, C. P. (2014) Nucleolar size and assembly is governed by a concentration-dependent phase transition, *Gordon Research Conference*, Post-Transcriptional Gene Regulation.
- Weber, S. C., Spakowitz, A. J. and Theriot, J. A. (2010) ATP-dependent fluctuations drive macromolecular motion in vivo, American Society for Cell Biology, Annual Meeting.

Teaching/Mentoring Experience

Adjunct Lecturer, Department of Biology, Santa Clara University	2015-present
Pedagogical training through the Teaching Transcript Program, The McGraw Center, Princeton University	2013-2015
Guest Lecturer, CBE433 Mechanics and Dynamics of Soft Living Matter, Princeton University	2012, 2014
Mentor for high school, undergraduate, senior thesis and graduate students, Princeton University	2011-2015
Teaching Assistant, BIOE41 Physical Biology of Macromolecules, Stanford University	2010
Teaching Assistant, Physiology Course, Marine Biological Laboratory, Woods Hole, MA	2008
Teaching Assistant, BIO109 The Human Genome and Disease, Stanford University	2008

Service

Princeton Postdoc Council

2013-2015

Served as liaison between postdocs and administration; Organized professional development and social events for the postdoctoral community at Princeton

Mentoring Program

2013-2015

Coordinated mentoring relationships between postdocs and graduate students, in collaboration with Graduate Women in Science and Engineering (GWISE)

Outreach 2012-2015

Designed and delivered lectures and lab activities for middle school students at Stuart Country Day School in Princeton, NJ and Kilmer Elementary School in Trenton, NJ

References

Clifford P. Brangwynne, Ph.D.

Assistant Professor Chemical and Biological Engineering Princeton University 301 Hoyt Laboratory Princeton, NJ 08544 (609) 258-4528 cbrangwy@princeton.edu

Julie A. Theriot, Ph.D.

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Professor Applied Physics Stanford University Clark Center S264 Stanford, CA 94305 (650) 725-1204 dsfisher@stanford.edu

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Mechanical and Aerospace Engineering
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