

## Curriculum vitae --- Georg Seelig

### Education and Training

Institution	Field of Study	Degree	Year
University of Basel	Physics Minor in Chemistry	Diploma	1999
University of Geneva	Physics	PhD	2003
California Institute of Technology	Applied Physics	Postdoctoral	2009

### Research and Professional Experience

Dec 2009-Present	Adjunct Assistant Professor, Bioengineering, University of Washington
March 2009-Present	Assistant Professor, Electrical Engineering and Computer Science & Engineering, University of Washington
Nov 2003- Feb 2009	Postdoctoral Researcher, California Institute of Technology
Nov/Dec 2006	Visiting Scientist, Columbia University School of Medicine
April/May 2003	Visiting Scientist, Bell Labs, Lucent Technologies
Feb-Sept 2003	Postdoctoral Researcher, University of Geneva, Switzerland
April/May 2002	Visiting Scientist, Bell Labs, Lucent Technologies
Nov 1999-Feb 2003	Graduate Research Assistant, University of Geneva, Switzerland

### Awards and Honors

Young Faculty Award, DARPA, 2012  
Sloan Research Fellowship, 2011, Alfred P. Sloan Foundation  
CAREER Award, 2010, National Science Foundation  
Career Award at the Scientific Interface, 2008, Burroughs Wellcome Fund  
Fellowship for Advanced Researchers, 2006, Swiss National Science Foundation  
Postdoctoral Fellow, 2004, Center for Biological Circuit Design, Caltech  
Postdoctoral Fellowship, 2003, Swiss National Science Foundation

### Selected Publications

1. Richard Muscat, Karin Strauss, Luis Ceze and Georg Seelig, *DNA-based Molecular Architecture with Spatially Localized Components*, submitted (2011).
2. David Yu Zhang and Georg Seelig, *Dynamic DNA Nanotechnology Using Strand Displacement Reactions*, *Nature Chemistry* **3**, 103 (2011).
3. David Yu Zhang and Georg Seelig, *DNA-based Fixed Gain Amplifiers and Linear Classifier Circuits*, *DNA 16 Lecture Notes In Computer Science* **6518**, 176 (2011).
4. David Soloveichik, Georg Seelig, and Erik Winfree, *DNA as a Universal Substrate for Chemical Kinetics*, *Proc. Nat. Acad. Sci. USA* **107**, 5393 (2010).
5. Georg Seelig and David Soloveichik, *Time-Complexity of Multilayered DNA Strand Displacement Circuits*, *DNA 15 Lecture Notes in Computer Science* **5877**, 144 (2009).
6. Georg Seelig, David Soloveichik, David Yu Zhang and Erik Winfree, *Enzyme-Free Nucleic Acid Logic Circuits*, *Science* **324**, 1585 (2006).
7. Georg Seelig, Bernard Yurke and Erik Winfree, *Catalyzed Relaxation of a Metastable DNA Fuel*, *J. Am Chem. Soc.* **128**, 12211 (2006).
8. Georg Seelig, A. V. Andreev, and K. A. Matveev, *Phonon resistance of electron liquids in quantum wires*, *Phys. Rev. Lett.* **94**, 066802 (2005).
9. Georg Seelig and K. A. Matveev, *Electron-phonon scattering in quantum point contacts*, *Phys. Rev. Lett.* **90**, 176804, (2003).
10. Karyn Le Hur and Georg Seelig, *Capacitance of a quantum dot from the channel-anisotropic two-channel Kondo model*, *Phys. Rev. B.* **65**, 165338 (2002).