

SATHYAKUMAR S KUNTAEGOWDANAHALLI

Center for Adaptive Neural Systems, PO Box 874404, ASU, Tempe AZ - 85287

Ph. #: (513) 284-6862 Email: srinidhi.k83@gmail.com

EDUCATION

Arizona State University, Tempe, Arizona

PhD, Bioengineering, *August 2009 – Present*

University of Cincinnati, Cincinnati, Ohio

MS, Electrical Engineering, *Sept 2006 – June 2009*

3.98/4.00

Birla Institute of Technology & Science (BITS), Pilani, India

B.E. (Hons.) Electronics & Instrumentation

M.Sc (Hons.) Mathematics (Dual Degree Program), *Aug 2001- Jun 2006*

8.22/10.00

RESEARCH PROJECTS

- *Study of Inertial migration of particles in microchannels*
- *High throughput Separation of Microparticles and cells using Inertial Microfluidics*
- *High throughput flow cytometry using inertial microfluidics*
- *Fabrication of Diaphragm based Piezo-resistive Pressure Sensor*
- *Design, Fabrication and Testing of an Innovative Microfluidic Mixer for Lab on a Chip Application*
- *Design of a Fiber Optic Angular Displacement Sensor*

PUBLICATIONS

- Sathyakumar S Kuntaegowdanahalli, Ali Asgar S. Bhagat and Ian Papautsky, “Inertial microfluidics for continuous particle separation in spiral microchannels”, *Lab on a Chip*, 2009, DOI: 10.1039
- Ali Asgar S. Bhagat, Sathyakumar S Kuntaegowdanahalli and Ian Papautsky, “Continuous particle separation in spiral microchannels using Dean flows and differential migration”, *Lab on a Chip*, 2008, 8, 1906-1914
- Ali Asgar S. Bhagat, Sathyakumar S Kuntaegowdanahalli and Ian Papautsky, “Enhanced particle filtration in straight microchannels using shear-modulated inertial migration”, *Physics of Fluids*, 2008, 20, 101702
- Ali Asgar S. Bhagat, Sathyakumar S Kuntaegowdanahalli and Ian Papautsky, “Inertial microfluidics for continuous particle filtration and extraction”, *Microfluidics and Nanofluidics*, (*Accepted*)
- Sathyakumar S Kuntaegowdanahalli, Ali Asgar S. Bhagat and Ian Papautsky, “Continuous multi-particle separation using deterministic focusing in spiral microchannels”, in Proc. *International Conference on Solid-State Sensors and Actuators (Transducers '09)*, Denver, CO, Jun 21-25, 2009 (*Accepted for Oral Presentation*)
- Ali Asgar S. Bhagat, Sathyakumar S Kuntaegowdanahalli and Ian Papautsky, “Passive microfluidic sorting of particles using differential migration,” in Proc. Of the 12th International Conference on Miniaturized Systems for Chemistry and Life Sciences (*μTAS2008*), San Diego, CA, Oct 12-16,2008
- Ali Asgar S. Bhagat, Sathyakumar S Kuntaegowdanahalli and Ian Papautsky, “High-throughput flow cytometry using inertial microfluidics,” in Proc. Of the 13th International Conference on Miniaturized Systems for Chemistry and Life Sciences (*μTAS2009*), Jeju, South Korea, Nov 1-5, 2009 (**Poster**)
- Ali Asgar S. Bhagat, Sathyakumar S Kuntaegowdanahalli and Ian Papautsky, “Spiral microfluidic nanoparticle separators,” in Proc. **SPIE**, vol.6886, pp.68860M, 2008

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AWARDS AND ACHIEVEMENTS

- Recipient, SFAz Graduate Research Fellowship, Arizona State University, Tempe, Arizona, Aug 2009 – Present.
- Recipient, Institute for Nanoscale Science and Technology Grant, University of Cincinnati, Cincinnati Ohio, Sep 2007 – Dec 2007
- Recipient, “Best Micro-mixer design” award for Bio-chip Lab, University of Cincinnati, Ohio, Jun 2007
- Recipient, University Graduate Scholarship, University of Cincinnati, Cincinnati Ohio, Sep 2006 -Jun 2008

WORK EXPERIENCE

Research Assistant

Aug 2009 – Present

Dept. of Bioengineering, Arizona State University, Tempe, AZ

Teaching Assistant

Sep 2007 – Dec 2007

Dept. of Electrical Engineering, University of Cincinnati, Cincinnati, OH

Co-Op Engineer

Jul 2005 – Jun 2006

Cypress Semiconductor, Digital Design Group, Bangalore, India