

Curriculum Vitae

Name: Kevin Tangen
Address: Department of Bioengineering
University of Illinois at Chicago
851 S. Morgan St., SEO 205
Chicago, IL 60607-7000

last updated: 10/1/2014
Tel: (973) 647-7378
Tel: (312) 355-2520 (Work)
Email: ktange2@uic.edu

I. PROFESSIONAL EXPERIENCE

Education

Ph.D. Bioengineering. Sept. 2011 – Present
University of Illinois at Chicago Chicago, IL

Bachelor of Science, Biomedical Engineering. Aug. 2007 – May 2011
University of South Carolina Columbia, SC
University of South Carolina Honors College

Experience

Graduate Research Assistant, (Advisor: Dr. Andreas Linninger) 2012 – Present
Linninger Research Group UIC, Chicago, IL

Industrial Experience

Design Engineer 2013 – Present
System Science Corporation

Society Membership

Member Biomedical and Bioengineering Society (BMES)

II. PUBLICATIONS

Papers in Refereed Journals

1. K. Tangen, Y. Hsu, D. Zhu, A. Linninger. "Effect of spinal micro-anatomy on CSF flow patterns - comparative analysis of in vivo data and computations", *J. of Biomechanics*, Under review
2. S. Basati, K. Tangen, Y. Hsu, H. Lin, D. Frim, A. Linninger. "Impedance Changes Indicate Proximal Ventriculoperitoneal Shunt Obstruction In-Vitro", *IEEE TBME*, Accepted – Pending Publication

Abstract, Posters and Presentations at Technical Conferences and Meetings

1. A. Linninger and K. Tangen "Cerebrospinal Fluid Flow and Mixing Patterns Due to Spinal Microanatomy", *7th World Congress of Biomechanics*, Boston, MA, July 10, 2014
2. K. Tangen and A. Linninger "Frequency and magnitude of CSF pulsations influence intrathecal drug administration: key factors for interpatient variability", *Neuroscience Forum*, Lausanne, CH, Feb. 7, 2014

3. A. Linninger and K. Tangen, I. Venugopal, and E. Lueshen. Simulations of CSF Flow Dynamics in a Global CNS Model With Magnetically Targeted Intrathecal Drug Delivery, Poster 98, AIChE Annual Meeting, San Francisco, CA, Nov. 3-8, 2013
4. A. Linninger and K. Tangen. "Effect of Spinal Micro-anatomy on CSF Flow Patterns", 2nd Annual CSF Hydrodynamics Symposium, Manhasset, New York, June 24th, 2013
5. K. Tangen and A. Linninger. "Effect of Spinal Micro-anatomy on CSF Flow Patterns", BMES Annual Meeting, Seattle, September 25-28, 2013

Relevant Technical Reports

1. K. Tangen, I. Venugopal, C-Y. Hsu, A. Linninger. Image Reconstruction Using MIMICS. Technical Report
2. A. Linninger, S. Basati, K. Tangen. "Real-Time CSF Pressure-Volume Compliance Monitor for Hydrocephalus Management", NIH R44 Fast-Track Proposal Submission, August 2014
3. A. Linninger, S. Basati, K. Tangen. "Non-surgical obstruction sensing and clearance system for hydrocephalus shunts", NIH R43 Proposal Submission, April 2014
4. A. Linninger, S. Basati, K. Tangen. "clearShunt Impedance Sensor for Catheter Obstruction in Hydrocephalus", NIH R43 Proposal Submission, August 2013

III. TEACHING EXPERIENCE

Supervision of Students:

2014	Mentor of A. Sane, Masters research student
2014	Mentor of R. Leval, Visiting research internship
2014	Mentor of J. O'Brien, Research experience for teachers (NSF-RET)
2014	Mentor of C. Alcantrar, UIC BioE Summer Research Internship
2013	Mentor of Z. Almodovar, Research experience for teachers (NSF-RET)