PONG-YU (PETER)

PROFESSIONAL PREPARATION

Cornell University	B.A.	Physics,	2000
Brown University	M.S.	Engineering	2003
Brown University	Ph.D.	Engineering	2007

PROFESSIONAL APPOINTMENTS

Assistant Professor	Binghamton University	Mechanical Engineering	2008 - present
Postdoctoral Associate	Tufts University	Biomedical Engineering	2006 - 2008

RESEARCH THRUSTS

Micro/Nanoscale fluid, colloidal and multiphase dynamics Biomechanical dynamics of pathological cells Multiphase microfluidic heat transfer Miniaturization of biomedical devices Micro- and nanoscale measurement techniques Physiological transport phenomena

JOURNAL PUBLICATIONS

M. Coloma, J. D. Schaffer, P. Chiarot, and P. Huang

in near-wall shear flows and the implications for nano-velocimetry. 241-265, 2009.

<u>P. Huang</u>, M. Hunter and I. Georgakoudi. A confocal light scattering spectroscopic imaging system for in situ tissue characterization. , **48**, 2595-2599, 2009.

B. J. Schmidt, <u>P. Huang</u>, K. S. Breuer and M.

BOOK CHAPTERS

P. Huang, J. S. Guasto, and K. S. Breuer. Evanescent wave microscopy.

ME 580B, Small-Scale Diagnostic Techniques in Mechanical Engineering Senior Design Projects	2011
	2009 - 2010
	2010 - 2011
	2011 - 2012
	2011 - 2012
	2012 - 2013
	2012 - 2013
 sponsored by the Discovery Center 	
of the Southern Tier and BAE Systems	2013 - 2014
– for the Discovery	v Center
of the Southern Tier	2014 - 2015
	2014 - 2015

PROFESSIONAL SERVICES

Co-organizer, Track 33 Measurement and Instrumentation at Microscale, ASME 10th International Conference on Nanochannels, Microchannels, and Minichannels 2012, Puerto Rico.
Co-organizer, Microfluidics Forum, ASME International Mechanical Engineering Conference & Exposition 2011, Denver, Colorado.
Organizer & Session Chair, Microfluidics Forum, ASME International Mechanical Engineering Conference & Exposition 2010, Vancouver, British Columbia, Canada.
Co-organizer & Session Chair, Microfluidics Forum, ASME International Mechanical Engineering Conference & Exposition 2010, Vancouver, British Columbia, Canada.
Proposal Reviewer, American Chemical Society
Program Reviewer, Engineering Science Program, SUNY Broome

HONORS

NSF Summer Institute Fellowship2009Brown University Graduate Fellowship2000 - 2001

PROFESSIONAL AFFILIATIONS

Faculty Member, SUNY Upstate Cancer Research Institute.Faculty Member, Binghamton Biofilm Research Center.Member, American Society of Mechanical Engineers (ASME).Member, American Society of Engineering Education (ASEE).Member, American Physical Society (APS), Division of Fluid Dynamics.

ARCHIVAL JOURNAL AND CONFERENCE PROCEEDINGS REFEREED

Journal of Fluid Mechanics (3x) Journal of Fluid Engineering (4x) Microfluidics and Nanofluidics (3x) International Journal of Heat and Mass Transfer Optics Express Mathematical Problems in Engineering Journal of the Association for Laboratory Automation (2x)