

Craig A. Snoeyink, PhD

Contact Information	Department of Mechanical Engineering Texas Tech University Lubbock, TX 79416	+1.806.834.0539 craig.snoeyink@ttu.edu research.snoeyink.org
Education	Purdue University , West Lafayette, IN Ph.D., Mechanical Engineering, August 2012 <ul style="list-style-type: none">• Dissertation Topic: <i>Interference Microscopy: Super-resolution Particle Tracking and Velocimetry</i>• Advisors: Steven T. Wereley, Ph.D Case Western Reserve University , Cleveland, OH M.S., Mechanical Engineering, May 2005 <ul style="list-style-type: none">• Thesis Topic: <i>Thermoelectric Measurements of Shark Gel and Polyelectrolytes in Salt Solutions</i>• Advisor: Alexis Abramson, Ph.D B.S.E., Mechanical Engineering, May 2004	
Professional Experience	Assistant Professor Department of Mechanical Engineering, Texas Tech University	August 2014 to Present
	Postdoctoral Research Scientist Department of Mechanical Engineering, Texas Tech University Supervisor: Jordan Berg, Ph.D	Aug 2012 to Aug 2014
	Invited Researcher Institut für Strömungsmechanik und Aerodynamik Bundeswehr Universität der München Supervisors: Prof. Dr. Christian Kahler,	Summer 2011
	Research Assistant Department of Mechanical Engineering, Purdue University Supervisors: Steven T. Wereley, Ph.D	Aug 2005 to Aug 2010
Refereed Journal Publications	<ol style="list-style-type: none">1. Snoeyink, C. “Imaging performance of Bessel beam microscopy.” <i>Optics Letters</i>, 38(14):2550, 2013.2. Snoeyink C., Wereley S. “Single Image Far Field Sub-diffraction Limit Imaging with Axicon” <i>Optics Letters</i>, 38(5):625, 2013. (Selected for inclusion in <i>Virtual Journal for Biomedical Optics</i> 8(4) 2013)3. Snoeyink C., Wereley S. “A Novel 3D3C Particle Tracking Method Suitable for Microfluidic Flow Measurements” <i>Experiments in Fluids</i>, 54(1):1453, 2013.4. Snoeyink C., Wereley S. “Three Dimensional Locating of Paraxial Point Source with Axicon” <i>Optics Letters</i>, 37(11):2058, 2012.	
Edited Volume Entries	<ol style="list-style-type: none">1. Snoeyink, C., Wereley, S., “Micro-nanoscale Flow Characterization”, <i>Encyclopedia of Nanotechnology</i> Bhushan, Bharat (Ed.), 1st Edition., Springer Inc. (2012)	

Conference Papers	<ol style="list-style-type: none"> 1. Snoeyink, C., Wereley, S., “Bessel Beam Microscopy: Three Dimensional Particle Tracking with Super-Resolution”, <i>10TH International Symposium on Particle Image Velocimetry PIV13</i> (2013) 2. Snoeyink, C., Christopher, G., Barman, S., Wereley, S., “Sub-diffraction Limit Three Dimensional Particle Tracking Velocimetry”, <i>ASME 2013 International Mechanical Engineering Congress and Exposition IMECE 2013</i> (2013) 																												
Intellectual Property	<ol style="list-style-type: none"> 1. Snoeyink, C., Wereley, S., “SINGLE IMAGE SUPER-RESOLUTION MICROSCOPY AND TELESCOPE SYSTEMS ” U.S. Application Serial No. 14/101,107, filed 12/6/2013, Patent Pending. 																												
Awards	Ward A. Lambert Graduate Teaching Fellowship <i>Mentored by Prof. Carl Wassgren</i> Summer Research Grant in support of dissertation research																												
Presentations	<ul style="list-style-type: none"> • Snoeyink, C., Wereley, S., “3D3C Measurements of electrothermal vortex using Interference Particle Tracking Velocimetry.” <i>64th Annual Meeting of the APS Division of Fluid Dynamics</i> • Snoeyink, C., Wereley, S., “3D3C micro-PIV with Self-Interfering Wavefronts.” <i>63th Annual Meeting of the APS Division of Fluid Dynamics</i> 																												
Teaching Experience	<table> <tr> <td>Texas Tech University</td> <td>Fall 2012 to Current</td> </tr> <tr> <td>Design I (senior capstone course, first semester) (ME 4370)</td> <td></td> </tr> <tr> <td>Instructor <i>Fall 2013</i></td> <td></td> </tr> <tr> <td>Fluid Dynamics (ME 3370)</td> <td></td> </tr> <tr> <td>Instructor <i>Fall 2012, Spring 2013</i></td> <td></td> </tr> <tr> <td>Statics (ME 2301)</td> <td></td> </tr> <tr> <td>Instructor <i>Fall 2012, Spring 2013</i></td> <td></td> </tr> <tr> <td>Purdue University</td> <td>Spring 2010 to Spring 2012</td> </tr> <tr> <td>Fluid Mechanics (ME 309)</td> <td></td> </tr> <tr> <td>Instructor <i>Spring 2011, Fall 2011</i></td> <td></td> </tr> <tr> <td>Introduction to Mechanical Engineering Design, Innovation, and Entrepreneurship (ME 203)</td> <td></td> </tr> <tr> <td>Lead Teaching Assistant <i>Spring 2012</i></td> <td></td> </tr> <tr> <td>Fluid Mechanics (ME 309)</td> <td></td> </tr> <tr> <td>Lead Teaching Assistant <i>Spring 2010, Fall 2010</i></td> <td></td> </tr> </table>	Texas Tech University	Fall 2012 to Current	Design I (senior capstone course, first semester) (ME 4370)		Instructor <i>Fall 2013</i>		Fluid Dynamics (ME 3370)		Instructor <i>Fall 2012, Spring 2013</i>		Statics (ME 2301)		Instructor <i>Fall 2012, Spring 2013</i>		Purdue University	Spring 2010 to Spring 2012	Fluid Mechanics (ME 309)		Instructor <i>Spring 2011, Fall 2011</i>		Introduction to Mechanical Engineering Design, Innovation, and Entrepreneurship (ME 203)		Lead Teaching Assistant <i>Spring 2012</i>		Fluid Mechanics (ME 309)		Lead Teaching Assistant <i>Spring 2010, Fall 2010</i>	
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Service	Reviewer for Scholarly Journals: <i>Optics Letters 2012- , IMECE 2013, JoSA A 2013-</i>																												
Hardware and Software Skills	Programming Languages: MATLAB, Python/SciPy/PyLab, Java, C++, LabView, LaTeX Software: Linux, ImageJ, SolidWorks, Subversion, Microsoft Office Suite, LibreOffice, MySQL																												