

Shaun Ceci

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Education

Ph.D. Mathematical Sciences, University of Memphis, 2011.

Dissertation: Navier-Stokes flow for a fluid jet with a free surface.

Advisor: Associate Professor Thomas Hagen.

B.S. Mathematics and University Honors Baccalaureate, Montana State University, 2005.

Institutional Honors: Highest Honors.

Departmental Honors: Highest Distinction (*University Honors Program*, only four awarded that year).

Honors Thesis: Geometric criterion for Pisot numbers with an application to a theorem of Brauer & Hurwitz.

Awards & Honors

University of Memphis Society Doctoral Fellow, *University of Memphis*, 2010.

First place, *Graduate Mathematics and Computer Sciences Division, Univ. of Memphis Student Research Forum*, 2009.

Outstanding Teaching Assistant Award, *University of Memphis*, 2006 and 2007.

Montana State University Award of Excellence, *Montana State University*, 2005.

Professional Experience

Assistant Professor, Le Moyne College, Fall 2011–PRESENT.

Courses taught: *Calculus I, Numerical Methods*.

Instructor, Rhodes College, Fall 2010.

Courses taught: *Calculus I*.

Graduate Assistant, University of Memphis, Fall 2005–Summer 2011.

Courses taught (with full autonomy): *Foundations of Mathematics, College Algebra, College Algebra and Trigonometry (Precalculus), Calculus I, II, and III, Differential Equations, Introduction to Proofs and Fundamentals of Mathematics, Introduction to Linear Algebra, Elementary Number Theory*.

Research

Fields of Interest

Applied Analysis, Partial Differential Equations, Fluid Dynamics.

Grant Support

NSF-Grant DMS 0709197.
Principal Investigator: Thomas Hagen.

Faculty Research Grant of the University of Memphis.
Principal Investigator: Thomas Hagen.

Publications

“On the Linearized Problem Arising in the Navier-Stokes Flow of a Free Fluid Jet” with T. Hagen.
Submitted, 2011.

“Spectral and Semigroup Results for the Stokes Operator of Free Liquid Jets” with T. Hagen.
Submitted, 2011.

“The effect of shear in fiber spinning” with C. Frost, T. Hagen, and D. Kurmashev.
ZAMM - Journal of Applied Mathematics and Mechanics, 89, 344–355, 2009.

Presentations

The effect of shear in fiber spinning (poster presentation).
21st Annual Student Research Forum, University of Memphis, March 2009.

Making the thin-filament approximation rigorous: a motivation (invited presentation).
International Conference on Applied Mathematics & Approximation Theory, University of Memphis, October 2008.

Thin domain problems in fluid dynamics (invited presentation).
International Conference on Interdisciplinary Mathematical & Statistical Techniques, Univ. of Memphis, May 2008.

Geometric criterion for Pisot numbers (honors thesis presentation).
University Honors Program Undergraduate Thesis Presentations, Montana State University, May 2005.

Service

Leadership Council Representative, Graduate Student Association, University of Memphis, 2009.

Memberships

Invited to:

Golden Key International Honour Society, 2005.

Honor Society of Phi Kappa Phi, 2005.

Mortar Board: National College Senior Honor Society, 2004.

Member of:

Pi Mu Epsilon: Honorary National Mathematics Society, 2004.

National Society of Collegiate Scholars, 2001.

Alpha Lambda Delta: National Honor Society for First Year Students, 2001.

Computer Skills

Virtual Learning Environments/Course Management Systems: Blackboard, Moodle.

Operating Systems: Linux, Windows, Macintosh.

Programming: Matlab/Octave/Scilab, Mathematica, Maple/Maxima.

Languages: HTML, CSS, Javascript.

Publishing: L^AT_EX, Adobe InDesign, Adobe Photoshop, Adobe Illustrator.

Last updated: November 22, 2011