

# Shaun Ceci

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Department of Mathematics & Computer Science  
Le Moyne College  
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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:* 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*).

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

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## Awards & Honors

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

First place, *Graduate Mathematics and Computer Sciences Division*,  
*University 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.

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## Teaching

### PROFESSIONAL EXPERIENCE

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

Courses taught: *Brief Calculus, Mathematics for Accounting Majors, Calculus I, Calculus II, Calculus III, Discrete Mathematics, Differential Equations, Differential Equations and Mathematical Modeling, Differential Equations for Scientists and Engineers, Numerical Methods, Introduction to Complex Analysis, Fundamentals of Engineering (Introduction to MATLAB)*.

**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, Calculus II, Calculus III, Differential Equations, Introduction to Proofs and Fundamentals of Mathematics, Introduction to Linear Algebra, Elementary Number Theory*.

### GRANT SUPPORT

JesuitNET CADE Online Course Development Stipend from Le Moyne College, 2014.

Nancy C. Ring Summer Curricular Development Stipend from Le Moyne College, 2013.

## Research

### FIELDS OF INTEREST

Applied Analysis, Partial Differential Equations, Fluid Dynamics.

### GRANT SUPPORT

Research and Development Summer Stipend of Le Moyne College, 2012.

*Principal Investigator:* Shaun Ceci.

NSF-Grant DMS 0709197, 2008.

*Principal Investigator:* Thomas Hagen.

Faculty Research Grant of the University of Memphis, 2007.

*Principal Investigator:* Thomas Hagen.

### PUBLICATIONS

“On a Non-Isothermal Model of Free Fluid Films” with T. Hagen.

*J. Math. Anal. Appl.* 434 (2016), 35–51.

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

*J. Math. Anal. Appl.* 395 (2012), 131–143.

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

*Proc. Dynamic Systems Appls.* 6 (2012), 78–84.

“The effect of shear in fiber spinning” with C. Frost, T. Hagen, and D. Kurmashev.

*Zeitsch. Angew. Math. Mech. (ZAMM)* 89 (2009), 344–355.

### PRESENTATIONS

“Semigroup results arising in the analysis of non-isothermal film casting” (invited presentation)

*34th Annual Southeastern Atlantic Regional Conference on Differential Equations, Memphis, October 2014.*

“The Navier-Stokes flow of a liquid jet with moving free surface” (invited presentation)

*9th AIMS Conference on Dynamical System, Differential Equations, and Applications, Orlando, July 2012.*

“Spectral and semigroup results arising in the analysis of free fluid jets” (invited presentation)

*International Conference on Mathematics and Statistics, Memphis, May 2012.*

“Local existence for the Navier-Stokes flow of a fluid jet with a free surface” (contributed presentation)

*Sixth International Conference on Dynamic Systems and Applications, Atlanta, May 2011.*

“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, Memphis, October 2008.*

“Thin domain problems in fluid dynamics” (invited presentation)

*International Conference on Interdisciplinary Mathematical & Statistical Techniques, Memphis, May 2008.*

“Geometric criterion for Pisot numbers” (honors thesis presentation).

*University Honors Program Undergraduate Thesis Presentations, Montana State University, May 2005.*