

# Ross A. Chiquet

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## Education

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<b>Ph.D. in Mathematics</b> University of Louisiana, Lafayette Advisor: Azmy Ackleh	December 2009
<b>M.S. in Mathematics</b> University of Nebraska, Lincoln	May 2002
<b>B.S. in Mathematics</b> Northwestern State University	December 1999

## Professional Experience

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<b>Assistant Department Head</b> Department of Mathematics University of Louisiana, Lafayette	Aug. 2013 – present
<b>Assistant Professor of Practice</b> Department of Mathematics University of Louisiana, Lafayette	Jan. 2016 – present
<b>Acting Department Head</b> Department of Mathematics University of Louisiana, Lafayette	Summer 2012, 2013, 2015, 2016
<b>Director of Freshman Mathematics</b> Department of Mathematics University of Louisiana, Lafayette	Aug. 2011 – Aug. 2013
<b>Master Instructor of Mathematics</b> Department of Mathematics University of Louisiana, Lafayette	Jan. 2012 – Jan. 2016
<b>Instructor of Mathematics</b> Department of Mathematics University of Louisiana, Lafayette	Aug. 2003 – Jan. 2012
<b>Instructor of Mathematics</b> Department of Mathematics Nicholls State University	Aug. 2002 – Aug. 2003
<b>Research Assistant</b> Department of Mathematics University of Nebraska, Lincoln	Summer 2001, 2002

**Graduate Teaching Assistant**  
 Department of Mathematics  
 University of Nebraska, Lincoln

Aug. 2000 – May 2002

### **Courses Taught**

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Developmental Mathematics, College Algebra, Finite Mathematics, Technical Mathematics, Trigonometry, Precalculus, Business Calculus, Calculus I, II, and III, Differential Equations, Foundations of Mathematics, Linear Algebra, Advanced Calculus, Advanced Differential Equations, Undergraduate Research

### **Advisor Positions**

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**Faculty Advisor** Aug. 2012 – present  
 UL Math Society  
 University of Louisiana, Lafayette

**Faculty Advisor for all mathematics majors** May 2012 – present  
 Department of Mathematics  
 University of Louisiana, Lafayette

**Undergraduate Research Advisor  
 and Honors Thesis Advisor (Chair)** Aug. 2011 – May 2013  
 Student: Logan Perry  
 University of Louisiana, Lafayette

**Mentor for LS-LAMP program** Aug. 2010 – May 2013  
 Student: Brandy Thibodeaux  
 University of Louisiana, Lafayette

**Undergraduate Research Advisor** June 2010 – present  
 Department of Mathematics  
 University of Louisiana, Lafayette

**Research Advisor for the  
 Biomathematics Program** Summer 2010

**Faculty Advisor** Aug. 2007 – present  
 Sigma Alpha Lambda Honor Society  
 University of Louisiana, Lafayette

**Faculty Advisor** Nov. 2007 – present  
 Ragin' Cajun Hockey Club Team  
 University of Louisiana, Lafayette

### **Refereed Publications**

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**A Matrix Population Model of Beaked Whales** (with Tyler Montgomery, Baoling Ma, and Azmy S. Ackleh), *Neural, Parallel and Scientific Computations*, **23 (2015) 179-192.**

**Refereed Publications (cont.)**

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**Approximate Solutions of Abel's Equation using Rational Inversion of the Laplace Transform** (with Patricio Jara, and Kevin W. Zitio), *Neural, Parallel, and Scientific Computations*, **23** (2015) 169-178.

**Chaos in a Two-stage Discrete Model with Strong Nonlinearities** (with L. Perry), *Dynamic Systems and Applications*, **23** (2014), 619-634.

**Demographic Analysis of Sperm Whales Using Matrix Population Models** (with B. Ma, A.S. Ackleh, N. Pal, and N. Sidorovskaia), *Ecological Modeling*, **248** (2013), 71-79.

**A Discrete Dispersal Model with Constant and Periodic Environments** (with A.S. Ackleh and P. Zhang), *Journal of Biological Dynamics*, **5** (2011), 563-578.

**Competitive Exclusion in a Discrete Juvenile-Adult Model with Continuous and Seasonal Reproduction** (with A.S. Ackleh), *Journal of Difference Equations and Applications*, **17** (2011), 955-975.

**The Global Dynamics of a Discrete Juvenile-Adult Model with Continuous and Seasonal Reproduction** (with A.S. Ackleh), *Journal of Biological Dynamics*, **3**(2009), 101-115.

**Referee Activities**

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**Referee** for the Journal of Mathematical Biology, Methods in Ecology and Evolution, and Endangered Species Research, Bulletin of Mathematical Biology, Mathematical Biosciences and Engineering journals and also for the USGS.

**Conference Presentations**

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**Invited Speaker** January 2017  
Analysis of Lethal and Sublethal Impacts of Environmental Disasters on Sperm Whales Using Stochastic Modeling  
AMS MAA Joint meetings, Atlanta, GA

**Invited Speaker** Sept. 2016  
Assessing the Impact of Environmental Disasters on Population Dynamics Using Stochastic Matrix Models  
Gulf of Mexico Oil Spill Conference, Tampa, FL

**Speaker** Feb. 2016  
Assessing the Impact of Environmental Disasters on Population Dynamics Using Stochastic Matrix Models  
LA/MS Regional MAA Meeting, Louisiana State University, Shreveport

**Invited Speaker** May 2015  
Demographic Analysis Of Sperm Whales Using Deterministic And Stochastic Models  
Seventh International Conference on Dynamic Systems and Applications, Atlanta, GA

**Invited Speaker** May 2015  
Coexistence and Competitive Exclusion in a Discrete Juvenile-Adult Model  
9th International Conference on Differential Equations and Dynamical Systems

- Invited Speaker** Jan. 2015  
Chaos in a Two-Stage Discrete Model with Periodic Birthrates  
Joint Mathematics Meetings, San Antonio, Texas
- Speaker** March 2014  
Chaos and Persistence in a Two Stage Ecological Model  
LA/MS Regional MAA Meeting, Louisiana State University
- Invited Speaker** March 2013  
Chaos in a Two-stage Ecological Model  
New Trends in Differential and Difference Equations, University of Tennessee at Chattanooga
- Speaker** March 2013  
Coexistence and Competitive Exclusion in a Discrete Juvenile-Adult Model  
LA/MS Regional MAA Meeting, University of Southern Mississippi
- Speaker** January 2012  
Demographic Analysis of Sperm Whales Using Matrix Population Models  
LA/MS Regional MAA Meeting, Northwestern State University
- Invited Speaker** October 2011  
Competitive Exclusion in a Discrete Juvenile-Adult Model  
3rd International Conference on Math Modeling & Analysis, San Antonio, Texas.
- Invited Speaker** May 2011  
Competitive Exclusion in a Discrete Juvenile-Adult Model  
6th International conference on Dynamic Systems and Applications, Morehouse College
- Speaker** January 2011  
Competitive Exclusion in a Discrete Juvenile-Adult Model with Continuous and Seasonal Reproduction  
AMS MAA Joint meetings, New Orleans, LA
- Speaker** March 2010  
Competitive Exclusion in a Discrete Juvenile-Adult Model with Continuous and Seasonal Reproduction  
LA/MS Regional MAA Meeting, Southeastern State University
- Speaker** March 2009  
The Global Dynamics of a Discrete Juvenile-Adult Model with Continuous and Seasonal Reproduction  
LA/MS Regional MAA Meeting, Mississippi College

### **Mathematics Department and University Service**

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**Departmental Committees Served:** College Algebra, High School Relations, Placement and Testing, Newsletter, Sophomore Mathematics, Rhodes Outstanding Teaching Award, Building and Facilities, Calculus, English Proficiency, Exam Booklet, Precalculus, Assessment, Scholarships

**Departmental Committees Chaired:** College Algebra, Placement and Testing, Exam Booklet, Precalculus, Assessment, Calculus, Scholarships

Appointed and server on the Universty Assessment Council 2014-present

Appointed and server on the Distance Learning Leadership Council 2014-present

Admissions by Committee committee 2011-present

Scholarships Appeals committee 2012-present

Honors Scholarships committee 2012-present

General Education Committee for the University.

Served on the Science Fair Committee from 2004-2011, director from 2009-2011

University Committee on Retention, Freshman Subcommittee

Judge for the Regional Science Fair from 2004-present

Monitor for the Literary Rally from 2004-2007

Dean's committee to develop and implement the new University 100 and 200 classes for the College of Sciences

Graduate student teaching mentor and advisor 2011-2013

Coordinate the Math Tutoring Lab 2011-2013

## Awards and Honors

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Outstanding University Advisor Award March 2016

Dr. Ray P. Authement Excellence in Teaching Award for the university April 2015

Ray P. Authement College of Sciences Outstanding Teacher Award, March 2014

Summer Research Fellowship, University of Nebraska, Lincoln, May 2002, May 2001

Teaching Assistantship, University of Nebraska, Lincoln, Aug 2000

## References

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Dr. Azmy Ackleh  
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