

Dr. Ross A. Chiquet

University of Louisiana at Lafayette
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Education

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

Professional Experience

Assistant Department Head Department of Mathematics University of Louisiana, Lafayette	Aug. 2013 – present
Assistant Professor of Practice Department of Mathematics University of Louisiana, Lafayette	Jan. 2016 – present
Acting Department Head Department of Mathematics University of Louisiana, Lafayette	Summer 2012, 2013, 2015, 2016, 2018
Director of Freshman Mathematics Department of Mathematics University of Louisiana, Lafayette	Aug. 2011 – Aug. 2013
Master Instructor of Mathematics Department of Mathematics University of Louisiana, Lafayette	Jan. 2012 – Jan. 2016
Instructor of Mathematics Department of Mathematics University of Louisiana, Lafayette	Aug. 2003 – Jan. 2012
Instructor of Mathematics Department of Mathematics Nicholls State University	Aug. 2002 – Aug. 2003
Research Assistant 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

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

Faculty Advisor UL Math Society University of Louisiana, Lafayette	Aug. 2012 – present
Faculty Advisor for mathematics majors Department of Mathematics University of Louisiana, Lafayette	May 2012 – present
Undergraduate Research Advisor and Honors Thesis Advisor (Chair) Student: Logan Perry University of Louisiana, Lafayette	Aug. 2011 – May 2013
Mentor for LS-LAMP program Student: Brandy Thibodeaux University of Louisiana, Lafayette	Aug. 2010 – May 2013
Undergraduate Research Advisor Department of Mathematics University of Louisiana, Lafayette	June 2010 – present
Research Advisor for the Biomathematics Program	Summer 2010
Faculty Advisor Sigma Alpha Lambda Honor Society University of Louisiana, Lafayette	Aug. 2007 – present
Faculty Advisor Ragin' Cajun Hockey Club Team University of Louisiana, Lafayette	Nov. 2007 – present

Refereed Publications

Sensitivity analysis of the recovery time for a population under the impact of an environment disturbance (with A. S. Ackleh, H. Caswell, A. Veprauskas, and T. Tang), *Natural Resource Modeling*, (2018): e12166.

Modeling as a complementary tool to acoustic data for understanding the impact of environmental disasters on marine mammals (with A. S. Ackleh, H. Caswell, A. Veprauskas, T. Tang, H. Caswell, N. Sidorovskaia and B. Ma), *The Journal of the Acoustical Society of America*, **142** (2017), 2533.

Analysis of lethal and sublethal impacts of environmental disasters on sperm whales using stochastic modeling (with Ackleh A.S., Ma B, Tang T, Caswell H, Veprauskas A, Sidorovskaia N), *Ecotoxicology*, 2017 May 12. doi: 10.1007/s10646-017-1813-4.

Picard's Iterative Method for Caputo Fractional Differential Equations with Numerical Results, (with R. Lyons (grad student) and A.S. Vatsala), *Mathematics*, **2017**, 5, 65; doi:10.3390/math5040065.

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.

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

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

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

Mathematics Department and University Service

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 University 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

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

Dr. Azmy Ackleh
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Dr. Keng Deng
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