

JESÚS JIMÉNEZ REYES PH.D.

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EDUCATION

1. PH.D. in Mathematics, University of Utah. (1989)
2. M. S. National Autonomous University of Mexico. (1984)
3. B. S. National Autonomous University of Mexico. (1982)

THESIS OR DEGREE REQUIREMENT DESCRIPTION

1. Ph.D. in Mathematics (Algebraic and Complex Analytic Geometry)
University of Utah. Salt Lake City, Utah
Thesis: Contraction of Nonsingular Curves in Analytic Spaces
2. M. S. in Mathematics (Differential and Hermitian Geometry)
National Autonomous University of México. México City, México
General Examination was required for the degree
3. B. S. in Mathematics (Algebra and Geometry)
National Autonomous University of México. México City, México
Thesis: Anillos Regulares y V-anillos (Regular Rings and V-rings)

TEACHING EXPERIENCE

1. 2003 – 2022. Tenured Professor of Mathematics
Point Loma Nazarene University. San Diego, CA
2. 1999 – 2003. Tenure Track Professor of mathematics
Point Loma Nazarene University. San Diego, CA
3. 1995 – 1999. Tenure Track Associate Professor of Mathematics
Point Loma Nazarene University. San Diego, CA
4. 1992 – 1995. Tenure Track Assistant Professor of Mathematics
Point Loma Nazarene University. San Diego, CA
5. 1990 – 1992. Assistant Professor of Mathematics
University of California in Riverside. Riverside, CA
6. 1989 – 1990. Adjunct Instructor of Mathematics
University of Utah. Salt Lake City, UT
7. 1984 – 1989. Teaching Fellow
University of Utah. Salt Lake City, UT
8. 1982 – 1984. Teaching Assistant (Graduate Student)
National Autonomous University of México. México City, México
9. 1980 – 1982. Teaching Assistant (Undergraduate Student)
National Autonomous University of México. México City, México

PUBLICATIONS

1. J. Jiménez. *Identities, Rank of Appearance and Period Of Second Order Linear Recurrences*. Submitted for publication.
2. J. Jiménez. *Periods of Linear Recurrences over Finite Fields*. In preparation.
3. J. Jiménez. *Lagrange's Interpolation, Chinese Remainder Theorem and Linear Equations*. ACMS 22nd Biennial Conference Proceedings, Indiana Wesleyan University, 2019
4. J. Jiménez. *The Set of Zero Divisors of Factor Rings*. Proceedings of the Association of Christian in the Mathematical Sciences. Vol. 21. May 2018.
5. J. Jiménez and M. Zack. *General Education Mathematics: A Problem-Solving Approach*. Current Practices in Quantitative Literacy. Mathematical Association of America Notes 70. 2006
6. J. Jiménez and M. Zack. *Keeping Assessment Simple*. Supporting Assessment in Undergraduates Mathematics. Notes Series of the Mathematical Association of America. 2006
7. B. E. Whalen and J. Jiménez. *Performance Comparison of Hermitian and Reed-Solomon Codes*. Proceedings of Military Communication (MILCOM), Vol. 1 pp. 15-19. 1997.
8. J. Jiménez. *Contractions of Nonsingular Curves*, Duke Mathematical Journal, Vol. 65, pp. 313-332. 1992.
9. J. Jiménez. *Contractions of Nonsingular Curves in Analytic Spaces*. Thesis, University of Utah. December 1989.

HONOR THESES – DIRECTED STUDENT RESEARCH

1. *Homomorphic Encryption* by Bryan Tapley. 2018
2. *A Family of Error Correcting Codes* by Ashleigh Meyers. 2017
3. *RSA Encryption Using Polynomials* by Michelle Freed. 2017
4. *Study of Neural Network-Based Key Exchange Protocol* by Aaron McKinstry. 2015
5. *An Exploration of Elliptic Curve Cryptography* by Ethan Wade. 2014
6. *Image Compressing Using Tensor Decomposition* by Nathaniel McClatchey. 2012
7. *The Calculus of Variation and the Brachistochrone* by Tyler Levasseur. 2012
8. *Qualitative Analysis of Systems of Ordinary Differential Equations* by Stephen C. Evilsizor. 2009
9. *Elliptic Curve Cryptography* by Gregory M. Rhodes. 2009
10. *Modern Encryption Algorithms and their Applications* by Todd R. Royal. 2007
11. *Reed-Solomon Error Correcting Codes* by Brady J. Acheson. 2005
12. *Thickness and Stick Numbers of Knots* by Tyler Corwin. 2004
13. *The Fundamental Group of Compact Surfaces with no Boundary* by Justin A. Brown. 2003
14. *Elliptic Curve Cryptography* by Kelly Kaldenberg. 2003

WORKSHOPS, SEMINARS, AND MINICOURSES

1. Lagrange's Interpolation, Chinese Remainder Theorem and Linear Equations. Presentation at Association of Christian in the Mathematical Sciences. Indiana Wesleyan University, Marion, IN (May 29th – June 1st) 2019

2. Mini-course: Introduction to Coding Theory and Cryptography, XIV Taller de cálculo Centro de Investigación en Matemáticas. Guanajuato, Guanajuato. México. July 2018
3. Minicourse: Introduction to Coding Theory and Cryptography, XIV Taller de cálculo Centro de Investigación en Matemáticas. Guanajuato, Guanajuato. México. July 2017
4. The Set of Zero Divisors of Factors Rings. Presentation at Association of Christians in the Mathematical Science Conference. Charleston Southern University, Charleston SC. (May 31st – June 2nd) 2017
5. Minicourse: Introduction to Coding Theory and Cryptography, XIV Taller de cálculo Centro de Investigación en Matemáticas. Guanajuato, Guanajuato. México. July 2016
6. Minicourse: Introduction to Coding Theory and Cryptography, XIV Taller de cálculo Centro de Investigación en Matemáticas. Guanajuato, Guanajuato. México. July 2015
7. Minicourse: Introduction to Coding Theory and Cryptography, XIV Taller de cálculo Centro de Investigación en Matemáticas. Guanajuato, Guanajuato. México. July 2014
8. Minicourse: Teoría de Números Taller de ciencias para jóvenes, ECOSUR. San Cristobal de las Casas. Chiapas. México. July 2014
9. Minicourse: Introduction to Coding Theory and Cryptography, XIV Taller de cálculo Centro de Investigación en Matemáticas. Guanajuato, Guanajuato. México. July 2013
10. Minicourse: Introduction to Coding Theory and Cryptography, XIV Taller de cálculo Centro de Investigación en Matemáticas. Guanajuato, Guanajuato. México. July 2012
11. Minicourse: Introduction to Coding Theory and Cryptography, XIV Taller de cálculo Centro de Investigación en Matemáticas. Guanajuato, Guanajuato. México. July 2011
12. Minicourse: Introduction to Coding Theory and Cryptography, XIV Taller de cálculo Centro de Investigación en Matemáticas. Guanajuato, Guanajuato. México. July 2010
13. Minicourse: Introduction to Coding Theory and Cryptography, XIV Taller de cálculo Centro de Investigación en Matemáticas. Guanajuato, Guanajuato. México. July 2009
14. Minicourse: Introduction to Coding Theory and Cryptography, XIV Taller de cálculo Centro de Investigación en Matemáticas. Guanajuato, Guanajuato. México. July 2008
15. Minicourse: Matemáticas de Doblado de Papel. Taller de Ciencias para Jóvenes, ALBARRADA. San Cristobal de las Casas. Chiapas. México. July 2008
16. Minicourse: Introduction to Coding Theory and Cryptography, XIV Taller de cálculo Centro de Investigación en Matemáticas. Guanajuato, Guanajuato. México. July 2007
17. Participant at the 2004 Meeting of the Mexican Mathematical Society in Ensenada, Mexico. October 2004
18. Poster Presentation on Student Assessment of Undergraduate Mathematics at the 2004 Annual Joint Meeting of the American Mathematical Society and The Mathematical Association of America in Phoenix, AZ. January 2004
19. Participant at two SAUM workshops on student learning assessment in Phoenix, AZ. 2003
20. Series of lectures on digital communication at the Space and Naval Warfare (SPAWAR) Center in San Diego, CA. January 1998 to December 1999
21. Participant at the “1998 International Symposium on Information Theory and its Applications.” Mexico City. October 1998

22. Colloquium speaker at the Mathematics Department of San Diego State University. San Diego, CA. August 1998
23. Participant at MILCOM 97 (Military Communications 1997). Conference held at Monterey, CA. Dr. Bruce E. Wahlen presented a paper that we co-authored. November 1997
24. Participant at the Annual Joint Meeting of the American Mathematical Society and the Mathematical Association of America held in San Diego, CA. January 1997
25. Invited speaker at the “II Symposium on Vector Bundles” held in the city of Morelia, Michoacan. México. July 1996
26. Active participant in the Department of Mathematics Seminar at PLNU 1993-1996
27. Participant at the “Summer Institute on Gauge Theory and Differential Geometry” sponsored by the Princeton Institute of Advanced Studies. Park City, UT. July 1994
28. Participant at the “Workshop on Algebraic Geometry.” The University of Utah. Salt Lake City, UT. July 1994
29. Participant at the “Workshop on Singularity Theory and Hodge Theory.” The University of California at Riverside. Riverside CA. May 1993
30. Participant at the “Workshop on Holomorphic Systems.” The Mathematical Institute in Guanajuato, México. June 1992
31. Invited speaker at the “Seminar on Algebraic Geometry.” The University of California at Los Angeles. Los Angeles, CA. April 1991

HONORS AND AWARDS

1. Teaching Fellowship Department of Mathematics University of Utah 1984 - 1989
2. UNAM Scholarship Institute of Mathematics National Autonomous University of México 1980 – 1984
3. State of Chiapas Scholarship Chiapas Institute of Art and Science Chiapas, México 1978 – 1981