

CURRICULUM VITAE

Kuo-chuan William Yin
November, 2021

Personal Data

Date of Birth:	June 5, 1963
Place of Birth:	Taipei, Taiwan
Marital Status:	Married to Carol M. Yin
Address:	100 Sweetgum Drive LaGrange Georgia 30240 Home Phone: (706) 882-2171 Office Phone: (706) 880-8356 e-mail: wyin@lgc.edu

Academic Record

Auburn University, Auburn, Alabama
Ph.D., June 1994

Auburn University, Auburn, Alabama
Master of Sciences, December 1990

National Chung Hsing University, Taiwan, Republic of China
Bachelor of Sciences, Applied Mathematics, June 1986

Teaching Experience at Auburn University

- Math 140 College Algebra (3 classes)
- Math 160 Pre-Calculus and Trigonometry (3 classes)
- Math 161 Calculus 1 (10 classes)
- Math 162 Calculus 2 (2 classes)
- Math 163 Calculus 3 (3 classes)
- Math 264 Calculus 4 (1 class)
- Math 169 Business Calculus (1 class)

Teaching Experience at LaGrange College

- Math 0100 Basic Mathematics
- Math 1101 College Algebra
- Math 1115 Finite Mathematics
- Math 1214 Statistics
- Math 1221 Pre-Calculus
- Math 2221 Calculus I
- Math 2222 Calculus II
- Math 2223 Calculus III
- Math 3000 Differential Equations
- Math 3316 Probability and Statistics
- Math 3317 Mathematical Statistics
- Math 3335 Linear Algebra
- Math 4343 Analysis
- Math 4495 Directed Reading
- Physical Education 120 Karate (under quarter system)
- Hped 3340 Karate: Techniques and Philosophy (3 hour credits)
- Intm 4390 Breaking the traditional barriers – how Bruce Lee broke the traditional barriers in films, martial arts and films.

Invited Presentations

- Fifth International Conference on Dynamical Systems and Differential Equations of American Institute of Mathematical Sciences) June 16, 2004 -- June 19, 2004, California State Polytechnic University, Pomona, California
- Special Session on Recent Trend in the Analysis and Computations of Functional Analysis, Central Sectional Meeting, Indiana University, Bloomington, Indiana, April 4-6, 2003
- Special Session on Dynamic Equations on Time Scales, Southeastern Section Meeting of the American Mathematical Society, Georgia Institute of Technology, Atlanta, Georgia, March 8-10, 2002.
- Special session on Dynamic Equations on Time Scales, National Joint Meeting of American Mathematical Society and Mathematical Association of America, San Diego, California, January 6-9, 2002
- Special session on Asymptotic Behavior of Solutions of Differential and Difference Equations, Southeastern Section meeting of the American Mathematical Society, University of Tennessee at Chattanooga, Chattanooga, Tennessee, October 5-6, 2001.
- International Conference on Dynamics of Continuous, Discrete and Impulsive System, London, Ontario, Canada, July 2001.
- Special Session on Differential inequalities, American Mathematical Society, Notre Dame, Indiana, April 2000.
- Third International Conference on Dynamic System and Applications, Atlanta, Georgia, May 26-29, 1999.
- Special Session on Boundary Value Problems, American Mathematical Society, Louisville, Kentucky, March 1998.
- Special Session on Singular Boundary Value Problems, American Mathematical Society, Cincinnati, Ohio, January 1994.

Contributed Presentations

- General Session, Thirteenth Midwest Differential Equations Conference, Moorhead, Minnesota, October 2000.
- Contributed Session on Ordinary Differential Equations, American Mathematical Society, Washington D.C., January 2000.
- Contributed Session on Ordinary Differential Equations, American Mathematical Society, San Antonio, Texas, January 1999.
- Contributed Session on Ordinary Differential Equations, American Mathematical Society, Baltimore, Maryland, January 1998.
- Contributed Session on Ordinary Differential Equations, American Mathematical Society, San Diego, California, January 1997.
- Contributed Session, Sixteenth Atlantic Regional Conference on Differential Equations, Atlanta, Georgia, October 1996.
- Contributed Session on Ordinary Differential Equations, American Mathematical Society, Orlando, Florida, January 1996.
- Contributed Session, Fourteenth Atlantic Regional Conference on Differential Equations, Knoxville, Tennessee, October 1994.
- Contributed Session, Thirteenth Atlantic Regional Conference on Differential Equations, Wilmington, North Carolina, October 1993.

Membership in Professional Associations

Member of American Mathematical Society

Work Experience

10/06-present Professor, LaGrange College, Georgia

10/99- 10/06 Associate Professor, LaGrange College, Georgia.

6/94-10/99 Assistant Professor, LaGrange College, Georgia.

9/89-6/94 Graduate Teaching Assistant, Auburn University, Alabama.

9/88-3/89 Programmer, Cathay Hospital, Taiwan, Republic of China.

10/86-8/88 Corporal, Military Police, Taiwan, Republic of China.

Honors and Awards

Travel Grant, National Science Foundation, Mathematical Challenges of the 21st Century at the UCLA, August 2000

Summer Research Grant, LaGrange College, 2000

Georgia Governor's Teaching Fellows, 1999-2000

Summer Research Grant, LaGrange College, 1999

Summer Research Grant, LaGrange College, 1997

Member of Phi Beta Delta International Honor Society 1994

Member of Phi Kappa Phi Honor Society 1994

Outstanding Graduate Student Award, Auburn University 1994

Service to the College

- Presidential Search Committee, 2019 – 2020
- Ethos Committee, 2018 – 2020
- Presidential Search Committee, 2008 – 2009
- Member of Academics Policy Committee, 2008 – 2018
- Chair of the good of the order committee, 2006 - 2007
- Co-chair of the search committee, Recruited faculty members (mathematics) Simon Hwang and Jenny Langdon, 2005
- Co-organizer, organize meeting for department of mathematics (students and faculty) 2004-2006
- Invited Professor Jeff Ehme as a speaker for a Contact program. The title of the program was "Using Mathematics to Price Stock Options", May 1997.

Jeff Ehme is an associate professor at Spelman College, Atlanta. He is the 1998 Excellent Teaching Award recipient of Spelman College.

- Organizer, Career Information Seminar for undergraduates in mathematics at LaGrange College, February 1997.

Invited Miss Carol Parker to speak to Math majors about a career in actuarial sciences. Miss Parker formally worked as an actuary in a firm in Atlanta.

- Chair of the good of the order committee, 2005-2006
- Member of technology round table committee, 2003 -2006
- Evaluation Committee, 1999-2000.
- Faculty adviser for LaGrange College Karate Club, 1995-1997.
- Learned Society Fund Committee, 1998-2000.
- Graduate Council Committee, 1997-1999.
- Athletics and Intramural Committee, 1995-1997.
- Curriculum Committee, 1995-1996.
- Committee on teacher education, 1995-1996.
- Recruiting, recruited international students from Taiwan, 1994-1995.

Professional Service

- Member of Visiting Committee (department of mathematics), Abilene Christian University, February 2007 - 2009
- Grant Evaluator (National Sciences Foundation) I was invited by National Sciences Foundation to Washington D.C. to evaluate grant proposal in July, 2005.
- Organizer, Cooperative Learning Meeting, LaGrange College, October, 1997.

Invited faculty members in Division of Sciences and Mathematics to exchange ideas on cooperative learning.

- Organizer, mini meeting on "Teaching Mathematics in a four-year liberal arts college - what the job entails", Auburn, Alabama, February 1997 and February 1998.

Organized meeting at Auburn University for graduate students in Mathematics Department on "Teaching Mathematics at a four year liberal arts college - what the job entails". Invited speakers from Spelman College, Columbus State University and Georgia Southwestern State University, February 21, 1997 and February 20, 1998.

- Organizer, meeting on "Undergraduate research in a four year college", Auburn, Alabama, February 21, 1997.

At this dinner symposium, I invited professor Jeff Ehme from Spelman College to be the speaker. Professor Ehme has directed many undergraduate student projects. One of his students won first place in the national contest.

- Journals refereed:

- *The Georgia Journal of Science*, July, 2014
- *Journal of Mathematical Analysis and applications* (2006)
- *Journal of Mathematical Analysis and applications* (2005) (two articles)
- *Journal of Applied Mathematics and Computing* (2004)
- Review chapter 3 of the book "*Advances in Dynamic Equations on Time Scales*" 2003
- *Journal of Computers and Mathematics with Applications* (October 2002)
- *Electronic Journal of Differential Equations* (June 2002)
- *Journal of Mathematical Analysis and Applications*, July 2001
- *Communications in Applied Analysis*, March 2001
- *Journal of Difference Equations and Applications*, February 2001
- *PanAmerican Mathematical Journal*, February 2001
- *Computers and Mathematics with Applications*. November, 2000
- *Special Issue in Dynamic Equations on Time, Journal of Computational and Applied Mathematics*, October, 2000
- *Communication on Applied Nonlinear Analysis*, July, 2000
- *Journal of Applied Mathematics and Stochastic Analysis*, 1998
- *Pan America Mathematics Journal*, 1996
- *Journal of Non-linear Differential Equations*, 1994

- Sessions chaired at professional meetings:

- Special session on "Differential Inequality", sectional meeting of the American Mathematical Society, Notre Dame, April 2000.
- Session on contributed talks, Fourteenth Atlantic Regional Conference on Differential Equations, Auburn, Alabama, October 1998.
- Special session on "Boundary Value Problems in Ordinary Differential Equations", sectional meeting of the American Mathematical Society, Louisville, Kentucky, March 1998.

- Project NExT Southeastern session in summer meeting of the Mathematical Association of America, Atlanta, Georgia, August 1997.
- Session on "Differential Equations", Mathematical Association of America Southeastern Sectional Meeting, Atlanta, Georgia, March, 1997.
- Session on "How to document your teaching effectiveness", Joint meeting of American Mathematical Society and Mathematical Association of America, Orlando, Florida, January 1996.
- Session on contributed talks, Fourteenth Atlantic Regional Conference on Differential Equations, Knoxville, Tennessee, October 1994.
- Special session on "Singular Boundary Value Problems", Joint meeting of the American Mathematical Society and Mathematical Association of America, Cincinnati, Ohio, January 1994.

Community Service

- Member of Advisory Council for the LaGrange Youth Council 2015 – 2017
 - Member of Institution Review Board, West Georgia Health System, 2014 – 2018
 - Guest speaker, invited to speak to the 11th grade class at LaGrange High School to talk about the government in Taiwan.
 - Guest speaker, invited to speak to 6th grade classes at Callaway Middle School about Chinese language and culture.
 - Member and Deacon of LaGrange Church of Christ
- Responsibility in church: (rotation basis)
- Lead singing
 - Usher
 - Building responsibility

Dissertation

"Singular Boundary Value Problems"
Directed by Professor Johnny Henderson

Publications

1. Singular boundary value problems (with J. Henderson), *BULLETIN of the Institution of Mathematics Academia Sinica* **19**(1991), 229-242.

2. Singular focal boundary value problems (with J. Henderson) *Journal of Nonlinear Differential Equations* **1**(1995), 127-150.
3. Focal boundary value problems for singular ordinary differential equations (with J. Henderson), *Advances in Nonlinear Dynamics (Stability and Control: Theory, Methods and Applications* **5**(1995), 283 - 295.
4. Eigenvalue problems for functional differential equations, *Journal of Nonlinear Differential Equations* **3**(1997), 74-82.
5. Existence of solutions of some functional differential equations(with D. Taunton), *Journal of Communications On Applied Nonlinear Analysis*, **4** (1997), 31 - 43.
6. Singular (k, n-k) boundary value problems between conjugate and right focal (with J. Henderson), *Journal of Computational and Applied Mathematics* **88**(1998), 57 - 69.
7. Positive solutions and nonlinear eigenvalue problems for functional differential equations, *Journal of Applied Mathematical Letters* **12**(1999), 63-68.
8. Positive solutions and nonlinear multipoint conjugate problems for functional differential equations(with J. Henderson), *Journal of Communications on Applied Nonlinear Analysis* **5**(1998).
9. Multiple positive solutions of singular right focal boundary value problems(with P. Elloe and J. Henderson), *Journal of Nonlinear Differential Equations*, Volume 5 (1999), 62-75.
10. Eigenvalue Comparisons for Differential Equations on a Measure Chain (with C. J. Chyan, J. Davis, J. Henderson), *Electr. J. Diff. Eqns.*, Vol. 1998(1998), No. 35, 1-7.
11. Existence of solutions of some functional difference equations, (with D. Reid), *Communications on Applied Nonlinear Analysis* **6**(1999) No 4, 51 - 59.
12. Eigenvalue intervals for nonlinear right focal problems, (with J. Davis, J. Henderson and K.R. Prasad), *Applicable Analysis* **74** (2000), 215--231.
13. Solvability of a nonlinear conjugate eigenvalue problem, (with J. Davis, J. Henderson, K.R. Prasad), *Canadian Applied Mathematics Quarterly* **8** (2001), 27-42.
14. Nonlinear eigenvalue problems involving two classes of functional differential equations, (with J. Davis and K.R. Prasad), *Houston Journal of Mathematics* **26**(2000) No. 3.
15. Solvability of a Nonlinear Second Order Conjugate Eigenvalue Problem on a Time Scale, (with J. Davis, J. Henderson and K. Prasad), *Abstract and Applied Analysis*, **5** (2000), 91-100.
16. Positive solutions of nonlinear functional difference equations, *Computers and Mathematics with Applications (Advances in Difference Equations)*, (with P. Elloe, Y. Raffoul and D. Reid) accepted June, 2000
17. Existence of triple positive solutions for (k, n-k) right focal boundary value problems (with C. J. Chyan and J. Davis), *Nonlinear studies*, **8**(2001) No.1, 33-51.

18. A convergence theorem on a measure chain (with J. Henderson and C.J. Chyan) , *Math Sci Research Hot-Lin* 5(2001), no.2, 15-22.
19. Existence of triple positive solutions for $(k,n-k)$ right focal boundary value problems (with Chyan, Chuan Jen; Davis, John M), *Nonlinear Stud.* 8 (2001), no. 1, 33--51.
20. Existence of solutions for third order boundary value problems on a time scale (with J. Henderson), *Computer & Mathematics with Applications devoted to Advances in Difference Equations IV*, to appear.
21. Existence of Solutions for Fourth Order Boundary Value Problems on a Time Scale (with J. Henderson), submitted to *Journal of Difference Equations and Applications* to appear.
22. Eventual Right Disfocality on Time Scales, (with K. Fick and J. Henderson), *Journal of Difference Equations and Applications*, 8 (2002), pp.371-387.
23. Two-Point and Three-Point Problems for Fourth Order Dynamic Equations (with J. Henderson) *Dynamic Systems and Applications* 11 (2002).
24. Existence of Solutions for Fourth Order Boundary Value Problems on a Time Scale (with J. Henderson), *Journal of Difference Equations and Applications*, 9 (2003), [no1](#), 15-28.
25. Co-author in Chapter 7 Positive Solutions for Boundary Value Problems in the book *Advances in Dynamic Equations on Time Scales*, Birkhauser, 2004
26. "Second order right focal boundary value problems on a time scale." with G Harris, J Henderson, and L Lanz, submitted to *Communications on Applied Nonlinear Analysis*.
27. "Third order right focal boundary value problems on a time scale" with G. Harris, J. Henderson, And L Lanz, *J. Difference Equ. Appl.* 12 (2006), [no. 6](#), 525--533.

Workshop and Conferences

- Attended three learning sessions provided by Microsoft on using Teams, 2020
- One learning session from Webassign, March 2020
- Attended LC Teaching and Learning Conference, May 15-16 2019
- Attended MAA Southeastern Sectional meeting at Clayton State University, Morrow, Georgia, March 9 – 10, 2012
- Attended Southeastern Atlanta Regional Conference on Differential Equations, Statesboro, Georgia, September 30 - October 1, 2011

- Attended MAA Southeastern Sectional Meeting at University of Alabama, Tuscaloosa, Alabama, April 1 -2, 2011
- Attended MAA Southeastern Sectional Meeting at Elon University, Elon, North Carolina, March 26 – 27, 2010
- Attended AMS/MAA joint national meeting, New Orleans, Louisiana, January 6 - 9, 2011
- South Atlantic Karate Association Summer Training Camp, August, Atlanta, 2006.
- Sectional meeting of the Mathematical Association of America, Auburn University, Auburn, March, 2006.
- Annual Joint Meeting of American Mathematical Society and Mathematical Association of America, San Antonio, Georgia, January 2006.
- Sectional meeting of the Mathematical Association of America, Meredith College, North Carolina, March, 2005.
- Annual Joint Meeting of American Mathematical Society and Mathematical Association of America, Atlanta, Georgia, January 2005.
- Sectional meeting of the Mathematical Association of America, Austin Peay State University, Tennessee, March, 2004.
- Fifth International Conference on Dynamical Systems and Differential Equations of American Institute of Mathematical Sciences) June 16, 2004 -- June 19, 2004, California State Polytechnic University, Pomona, California
- The 24th Annual Southeastern-Atlantic Regional Conference on Differential Equations, Chattanooga, Tennessee 2003.
- Joint meeting of the American Mathematical Society and the Mathematical Association of America, San Diego, California, January, 2002.
- Sectional Joint meeting of the American Mathematical Society and the Mathematical Association of America, Atlanta, Georgia, March, 2002.
- Twenty-second Atlanta Regional Conference on Differential Equations, University of Tennessee, Knoxville, Tennessee, October, 2002.
- Project InterMath-Workshop on Discrete Dynamical System, Carroll College, Helena, Montana, June 10-14, 2001.
- FINANCIAL MATHEMATICS: RISK MANAGEMENT, MODELING and NUMERICAL METHODS, IPAM (Institute for Pure and Applied Mathematics) Winter 2001 Program. January 3-12, 2001

- Joint annual meetings of American Mathematical Society and Mathematical Association of America:

San Antonio, January

Washington D.C., January 2000.

-- Gave a contributed presentation.

San Antonio, Texas, January 1999.

-- Gave a contributed presentation.

Baltimore, Maryland, January 1998.

-- Gave a contributed presentation.

San Diego, California, January 1997.

-- Gave a contributed presentation.

Orlando, Florida, January, 1996.

-- Organizer of the session on "How to document your teaching effectiveness".

-- Chair of the panel discussion in the same session.

Cincinnati, Ohio, January 1994.

-- Gave an invited presentation.

-- Chaired a special session.

- Atlantic Regional Conference on Differential Equations

Auburn, Alabama, October 1998.

-- Chaired a session.

Atlanta, Georgia, October 1996.

-- Gave a contributed presentation.

Knoxville, Tennessee, October 1994.

-- Gave a presentation.

-- Chaired a session.

-- This trip is supported by National Science Foundation through the conference.

- State-wide dinner and talk, Mathematical Association of America, Columbus, Georgia, April 15 2000.

Professor Ted Hill, from Georgia Tech, presented *Some Surprises in Probability*.

- Governor's Teaching Fellows Program: 1999 - 2000

The Governor's Teaching Fellows Program was established by the Honorable Zell Miller, Governor of the state of Georgia 1990-1998, to provide Georgia's higher education faculty with expanded opportunities for developing important teaching skills.

The Governor's Teaching Fellows Program is jointly sponsored by the Institute of Higher Education and the Office of Instructional Support & Development at the University of Georgia in Athens, Georgia.

- Project NExT: 1995 - present

This is a program Sponsored by the MAA (Mathematical Association of America) and the Exxon Education Foundation for recent Ph.D.'s in the mathematical sciences who are interested in improving the teaching and learning of undergraduate mathematics. Sixty Project NExT Fellows were selected from applicants across the country each year. Selected fellows would attend three national meetings. Fellows who entered this program in the same year are linked by an e-mail discussion list. Each list is monitored by about 30 consultants composed of national distinguished teachers and mathematics administrators. Some of the topics discussed are as follows:

- a. new approaches to teaching,
- b. using technology in the classroom,
- c. alternative methods of teaching and assessing student learning,
- d. lessons from pedagogical research, and
- e. the faculty member as teacher and scholar.

- Attended Mathfest - Annual Summer Meeting of Mathematical Association of America, Atlanta, Georgia, July 30 - August 4, 1997.

Facilitated a session for Project NExT.

- Mathfest -- Joint summer meeting of American Mathematical Society and Mathematical Association of America, Seattle, Washington, August, 1996.

Invited to participate in the Focus Discussion by the Task Force of Excellent Mathematics Scholarship of the American Mathematical Society.

- Attended Summer Conference on Difference Equations and their Applications, University of Wyoming, Laramie, Wyoming, July 14-25, 1997.

- Attended Institute of Higher Education Conference, Nashville Tennessee, June 25-27, 1997.

This conference is supported by the Board of Higher Education and Ministry of the United Methodist Church. The theme was "Students as Learners: In the Classroom and Beyond".

- Attended Calculus Reform Workshop at St. Mary's College, Notre Dame, Indiana, June 2-7, 1997.

The purpose of this meeting was to introduce teachers of mathematics to new ways of teaching Calculus in order to better meet the goals of the NSF (National Science Foundation). The focus of the workshop included such ideas as emphasizing the primacy of conceptual

understanding, the pedagogical value of multiple representations and the potential of technology to improve both pedagogy and content.

The two main speakers addressed many concerns that teachers have and also allowed the participants of the workshop to work through selected exercises in a Calculus Reform Textbook to get better understanding of the idea. Because the new teacher certification test has many questions that are similar to ones found in a Calculus Reform text and because these goals reflect the NSF's goals, two members of the department attended this workshop so that we can share these ideas with the rest of the department and better meet the needs of our students.

- Attended Georgia State-Wide seminars, Columbus State University, November 7, 1995, January 23, February 17, April 2, 1996, February 25, May 29, 1997.

This seminar is organized by professor Jim Herod from Georgia Tech. There are eight sites in the state of Georgia. At each site, a state college serves as a host and is equipped with distance learning centers. The seminars were held at the distance learning centers. This seminar is devoted to undergraduate mathematics education.

- Attended POET(Principles of Educating teachers) meeting and State-Wide seminar, Columbus State University, February, 1996 April 29, 1997.
- Attended STATS (Statistics) Workshop, Gainesville College, Gainesville, Georgia, March 8, 1997.

The purpose of this workshop was to introduce new approaches to the teaching of undergraduate statistics courses. Using current technology, various teaching methods were demonstrated that emphasize statistical thinking, concentrate more on data and concepts, and foster active learning.

- Attended INFORMS Workshop (Institution for Operations Research and the Management Sciences), Atlanta, Georgia, November 4, 1996.
- Mathematical Association of America Southeastern Sectional meeting.
Huntsville, Alabama, April 12 - 13, 1996.

Participated in the MAA mini course - Innovative teaching on Calculus by the Consortium based at Harvard University.

- All South Karate Federation summer training camp, Louisiana State University, Baton Rouge, June 7 - 9, 1996.