Yvonne C. Chueh

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EDUCATION

Doctor of Philosophy in Mathematics, with concentration in **Actuarial Science**
University of Connecticut, Storrs, Connecticut, 1999
Advisors: Dr. Charles Vinsonhaler and Dr. Jeyaraj Vadiveloo
Dissertation Title: "*Stochastic Economic Modeling for the Deferred Annuity (Accumulation) Line of Business: Efficient Modeling Approaches for Large and Consolidated Business Blocks*"

Master of Science in Mathematics, with concentration in **Actuarial Science**
University of Connecticut, Storrs, Connecticut, 1994

Bachelor of Science in Mathematics
National Taiwan University, Taiwan, 1991

PROFESSIONAL DESIGNATIONS

Member
American Academy of Actuaries, 2000-2003, 2007 to Present

Associate
Society of Actuaries, 1994-present

PROFESSIONAL EMPLOYMENT

2005–Present	**Central Washington University** Department of Mathematics ***Associate Professor and*** ***Director of Actuarial Science Program***
2007 Summer	**Milliman** Health Care ***Independent Contractor***
2001-2005	**Central Washington University**

Department of Mathematics
Assistant Professor and
Advisor of Actuarial Science Program

1999-2001 **University of Wisconsin-Eau Claire**
Department of Mathematics
Assistant Professor and
Advisor of Actuarial Science Emphasis

1997 to 1999 **Aetna Insurance Company** (ING-Aetna)
Aetna Retirement Services,
Hartford, Connecticut
Graduate Intern

1993 to 1999 **University of Connecticut**
Department of Mathematics
Instructor, Graduate Teaching Assistant

Summer **Center for Academic Programs**
1997, 1996 University of Connecticut
1995 ***Instructor, Tutor***

1991, 1992 **Institute for Information Industry**
Department of System Engineering, Taiwan, R.O.C.
R&D Assistant, Government Information System Tester, Programmer

PUBLICATIONS

Chueh, Yvonne C., "*Efficient Stochastic Modeling: Scenario Sampling Enhanced by Parametric Model Outcome Fitting*", ***Contingencies***, the major publication of the **American Academy of Actuaries**, 2005.

Chueh, Yvonne C. and Curtis, Dan, "*Optimal PDF (Probability Density Function) Models for Stochastic Model Outcomes: Parametric Model Fitting on Tail Distributions*", 1-17, New Ideas in Symbolic Computation: Proceedings of the 6th ***International Mathematica Symposium***, 2004.

Chueh, Yvonne C., "*Insurance Modeling and Stochastic Cash Flow Scenario Testing: Effective Sampling Algorithms to Reduce Number of Run* and *SALMS (Stochastic Asset Liability Modeling Sampling)*", ***Contingencies***, on-line link to full paper, the major publication of the **American Academy of Actuaries**, 2003.

Chueh, Yvonne C., "*You really can use it! An example of applying the knowledge earned in college*"; this article comments the state's tuition guaranteed program (GET) while addressing the actuarial classroom learning, ***the Future Actuary***, One of the most widely read newsletters of the **Society of Actuaries**, 2003.

Chueh, Yvonne C., "*Efficient Stochastic Modeling: From Scenario Sampling to Parametric Model Fitting Utilizing ASEM as an Example*", CD Rom Audio File, Proceedings of ***Symposium of Stochastic Modeling***, 1-40, an International Professional Development Symposium Co-sponsored by **Canadian Institute of Actuaries**, **Actuarial Foundation,** and **Society of Actuaries,** Toronto, Canada, 2003.

Chueh, Yvonne C., "*Efficient Stochastic Modeling for Large and Consolidated Insurance Business: Interest Sampling Algorithms*" ***North American Actuarial Journal*** **vol.3,** 88-103**,** the flagship journal of the **Society of Actuaries,** 2002.

PRESENTATIONS

"*A Different Distance Sampling Applied to Actuarial Science*", **Contributing Speaker** for the contributed paper session "*Education and Research in Actuarial Science*", ***PNW MAA Meeting*** **(Annual Meeting of the Pacific Northwest Section of the Mathematical Association of America)**, Ellensburg, WA, U.S.A. 2009

"*How People Learn: Teaching Probability Theory*", **Invited Speaker** for the **Project NExT**, ***PNW MAA Meeting*** **(Annual Meeting of the Pacific Northwest Section of the Mathematical Association of America)**, Ellensburg, WA, U.S.A. 2009

"*Distance Sampling Applied to Economic Scenarios for Business Models*", **Contributing Speaker, *Hawaii International Conference on Mathematics, Statistics and Related Fields,*** Honolulu, U.S.A., 2009.

"*Efficient Stochastic Modeling: Scenario Reduction by Pivot /Representative Scenarios with Parametric Tail Replication*", **Invited Speaker** and **panelist** for the seminar series "*Introduction to Modeling Efficiency and Scenario Reduction Techniques*" , ***Life Spring Meeting of SOA jointed with CIA***, Quebec City, Canada, 2008

"*Efficient Stochastic Modeling Utilizing Mixed Probability Density for Tail Enhancement (Post Representative Scenarios), subtitle: Maximum Likelihood Probability Model Fittings For Insurance Model Outcome Tail Enhancement*", **Invited Speaker, *Math Colloquium, National Cheng Kung University***, Tainan, Taiwan, 2008

"*Efficient Stochastic Modeling Utilizing Mixed Probability Density for Tail Enhancement (Post Representative Scenarios)***", Invited Speaker, Math Colloquium** ***University of Connecticut***, Storrs, U.S.A., 2007

"*Maximum Likelihood Probability Model Fittings for Insurance Model Outcome—Enhancement for Tail Distribution Capturing*", **Contributing Speaker, *Hawaii International Conference on Mathematics, Statistics and Related Fields,*** Honolulu, U.S.A., 2007.

"*The C3 Risk—Effective Scenario Sampling Algorithms and Implementation for Stochastic Modelers*", **Invited Speaker** and **panelist**, ***SOA Annual Meeting***, Chicago, U.S.A., 2006

"*Moving from undergraduate actuarial science program to advanced undergraduate actuarial science program*", **Contributing Speaker**, ***MAA Meeting***, San Antonio,U.S.A., 2006, listed with Dr Cent-song Lin.

"*Scenario Selection and Model Outcome Analysis*", **Invited Speaker** and **panelist**, ***Seminar for Investment Type Insurance Products with Guarantees: Risk Based Capital Requirements Using Stochastic Modeling***, Department of Risk Management and Insurance at National Chengchi Univeristy, Taipei, Taiwan, Republic of China, 2004.

"*Optimal PDF (Probability Density Function) Models for Stochastic Model Outcomes:Parametric Model Fitting on Tail Distributions*", **Contributing Speaker**, ***2004 International Mathematica Symposium proceedings***, Banff, Canada, 2004.

"*Efficient Stochastic Modeling Techniques and Analysis: Scenario Sampling & Outcome Distribution Fitting*", **Invited Speaker** and **panelist**, ***Designated Meeting for Risk Based Capital Requirements***, Insurance Institute of the ROC (IIROC) and Financial Integration Consulting & Research (FICR), Taiwan, Republic of China, 2003.

"*Efficient Stochastic Modeling Utilizing Representative Scenarios: Application to Equity Risks*", **Invited Speaker** and **panelist**, ***Designated Seminar for Variable Annuities and Cash Flow Testing Issues,*** Insurance Institute of the ROC (IIROC) and Financial Integration Consulting & Research (FICR), Taiwan, Republic of China, 2003.

"*Efficient Stochastic Modeling: From Scenario Sampling to Parametric Model Fitting Utilizing ASEM as an Example*", **Invited Speaker** and **panelist** for plenary session, ***Stochastic Modeling Symposium,*** Co-sponsored by **Canadian Institute of Actuaries**, **Actuarial Foundation,** and **Society of Actuaries,** Toronto, Canada, 2003.

"*Math Problems and Auto Insurance game*", **Invited Speaker,** ***Expanding Your Horizons Career-day Conference for middle school students***, sponsored by **CWU Science Education Program**, Ellensburg, Washington, USA, 2003.

"*Efficient Stochastic Modeling for Insurance: Sampling Algorithms and supporting software (SALMS)*", **Contributing Speaker**, ***International Conference in Actuarial Science, Statistics, and Financial Mathematics***, **Hong Kong University**, Hong Kong, China, 2002.

"*Stochastic Modeling for Cash Flow Testing*", **Invited Speaker**, **Mathematics Department, Central Washington University**, Ellensburg, Washington, USA, 2001.

"*Stochastic Modeling for Cash Flow Testing*" , **Invited Speaker**, ***Actuarial Seminar***, **Department of Actuarial Science, Risk Management & Insurance of University of Wisconsin-Madison**, Madison, Wisconsin, USA, 2001.

"*Stochastic Economic Modeling for Insurance Business: Sampling Techniques for Cash Flow Testing*", **Invited Speaker**, **Mathematics Department, University of Puget Sound**, Tacoma, Washington, USA, 2000.

"*The Hidden World of Actuaries*", **Contributing Speaker**, ***Math Retreat,*** **University of Wisconsin-Eau Claire**, Eau Claire, Wisconsin, USA, 2000.

"*A Variance Formula for Variable Annuity Payments for Joint Lives*" , **Contributing Speaker**, ***Math Seminar*****, University of Wisconsin-Eau Claire**, Eau Claire, Wisconsin, USA, 2000.

"*Stochastic Modeling and Cash Flow Analysis*", **Invited Speaker**, **Mathematics Department, University of Wisconsin-Eau Claire**, Eau Claire, Wisconsin, USA 1999.

"*Economic Value Added (EVA) and Stochastic Modeling for Deferred Annuities*" , **Invited Speaker**, **Mathematics Department, Southwest Missouri State University**, Springfield, Missouri, USA, 1999.

"*Economic Value Added (EVA) and Stochastic Modeling for Deferred Annuities*" , **Invited Speaker**, **Actuarial Science Department, Business School, Drake University**, Des Moines, Iowa, USA, 1999.

"*Stochastic Techniques for Cash Flow Testing*", **Invited Speaker**, **LCP (Large Case Pension), Aetna Insurance Company**, Hartford, Connecticut, USA, 1999.

"*Pricing an Annuity*", **Invited Speaker**, **Mathematics department, University of Wisconsin-Platteville**, Platteville, Wisconsin, USA, 1999.

UNDERGRADUATE RESEARCH GUIDED

Norman, Nicole and Paramo Elias; "*Cost Analysis for Intervention programs to Address Socio-Economic Determinants of health***",** with Principal **Arthur L. Baldwin III, FSA** and **Ben Diederich, FSA, of Milliman Inc,** $2000 award**,** summer 2007

Norman, Nicole and Paramo Elias; "*Which Popular Online Retailer Offers Better Prices on Electronic Products*", **Outstanding Poster Award**, poster presentation at ***CWU SOURCE***, 2007.

Thompson, Benny; Turner, Brandon; Bonallo, Ian; "*Overtime Football Analysis*", poster presentation at ***CWU SOURCE***, 2007.

Bjorkqvist, Jeanette and Bunnell, Dean; "*NHL Lockout and its Effects on Player Salary Distributions*", poster presentation at ***CWU SOURCE***, 2007.

"*Gene Tracker-a Software Engineering Project for Biological Science Genetic Sweep Study***"** with **Dr. Lixing Sun of Biological Science, Dr. Razvan Andonie of Computer Science,** undergraduates **Toby Lewandoski, Loren Harris, Blair Sherman, Jacob Odiaga,** 2006-7

Brown, David and Larson, Carlee; "*Do the Best Golfers Break the Bank*?", poster presentation at ***CWU SOURCE,*** 2006.

Mun, Stephen; "*Statistics and the Stock Market*", poster presentation at ***CWU SOURCE***, 2006.

Alexander, Katherine and LeBlanc, Terri; "CWU *gpa of cross reference: analysis on mean gpa's based on gender, age (non-traditional), and transfer (from community college)*", oral presentation at ***CWU SOURCE***, 2005.

CooperSmith, Beth and Kirk, Faith; "*An analysis of the actuarial science job market*" poster presentation at ***CWU SOURCE***, 2005.

Compton, Justin; "*Do MLB pitchers really get better with age*?"
poster presentation at ***CWU SOURCE***, 2005.

Li, Sunshine and Chan, Suen Ching; "*How much can you save by driving a hybrid car than the others?-- A Study of Correlation of rising gasoline price to car buyers' choice*". poster presentation at ***CWU SOURCE***, 2005.

Payton, Quinn; Husko, Tara; Lopez, Misael ; "*Beating the odds: using a popular video game to bet on professional football*", oral presentation at ***CWU SOURCE***, 2004.

Gossage, Chris; Moss, Dan; Grant, Taylor; "*An analysis of airline ticket pricing in the Seattle market*", poster presentation at ***CWU SOURCE***, 2004.

Leguizamo, Maria D.; "A *study on the clothing industry*", poster presentation at ***CWU SOURCE***, 2004.

Boettger, JJ ; "*A comparison of the third grade ITBS scores to the forth grade WASL scores*", poster presentation at ***CWU SOURCE***, 2004.

Goedecke, Patricia; "*Intonation of exclamatory questions, sincere or sarcastic?*", poster presentation at ***CWU SOURCE***, 2004.

Daniel Hansen, Matthew Miller, Edward Badgley, Jon Swenson, **Dr. Jim Schwing** (Advisor), "*ActuarialModel Outcome Optimal Fits: Developing a Software Package to Assist Actuarial Modelers*", ***Capstone Senior project in Computer Science***, **CWU**, 2003-2004.

Byron Ritter, "*The statistical significance of difference in the heights and weights of intercollegiate football players in the great northwest athletic conference*", oral presentation at **CWU *SOURCE***, 2003.

Collar Catharine, "*Coffee shop value for the studying students in Ellensburg, Washington*", poster presentation at **CWU *SOURCE***, 2003.

Michael Monardo, **Tiffanee Graff**,"*A beautiful day for baseball: an analysis of weather condit*ions on run production in the major leagues", poster presentation at **CWU *SOURCE***, 2003.

Jennifer Lampi, **Tiffanee Graff** , "*The lowest prices in town*", oral Presentation, **CWU *SOURCE***, 2003.

Jason Nowakowski, **Daniel Spulveda**, "*The Best Prize Problem*", **CWU *SOURCE***, 2002.

Paul Reed, Doug Love, Keith lambert, Mitsuharu Yasuda, Dr. Jim Schwing (Advisor), "SALMS: *Stochastic Interest Rate Sampling for Insurance Modeling*"; ***Capstone Senior Project in Computer Science*, CWU,** 2001-2002.

Paul Johnson & Tim Tucek, "*Asset Marketability and Liquidity Analysis*", ***University of Wisconsin System Research Symposium***, **University of Wisconsin-Eau Claire**, 2001.

GRANT WRITING

Society of Actuaries Call for Grant Proposal,* Project Title: "Developing a Data Quality Assurance Tool for Life Insurers – Designing and Engineering a Software Tool Called DATA (Data Assurance Tool & Analysis) to Be Used By Life Insurance Data Contributors***", Writer,*** 2007-8, ($49,088 finalist, not funded)

Milliman Inc., National Center for Minority Health and Health Disparities and the Department of Bioethics at the National Institutes of Health; "*Cost Analysis Report for Intervention Programs to Address Socio- Economic Determinants of Health*", **Contributor**, Summer 2007, ($10,000)

Spheres of Distinction Request for proposal: "Actuarial Science Education Center Plans" 2006, ($45,700, not funded)

CWU *Essential Instructional/Research Equipment Grant,* Project Title: "*Acquiring S-PLUS 7.0 Enterprise Developer and its FinMetrics Module, an industrial level software package, to enhance curriculum, instruction and research across all disciplines for students and faculty at* CWU", **Writer,** 2005, ($25,500 not funded)

CWU *Essential Instructional/Research Equipment Grant,* "*Enhancing Instruction and Research through S-Plus—small investment with huge return*", **Co-writer**, 2004, ($1461.90 not funded)

CWU *Seed Grant* for the project "*Optimal PDF (probability density functions) for Actuarial Model Outcome*", **Writer**, 2003 ($1791 funded)

CWU *Summer Research Appointment*, CWU Office of Graduate Studies and Research, "Title: Interest Rates Generating and Sampling Using SALMS—a Software
to Enhance Stochastic Asset/Liability Modeling", Summer 2002 ($3500 funded)

CWU *Essential Instructional/Research Equipment Grant,* "*Acquiring a Comprehensive Fixed Income Securities Database for Research and Instruction in Actuarial Science, Finance, and Investment*", **Writer,** Amount requested $13020, not funded, 2002.

CWU *College of Sciences Faculty Summer Research,* "*Interest Rates Generating and Sampling Using SALMS—a Software to Enhance Stochastic Asset/Liability Modeling*", **Writer,** Amount requested $3000, not funded, 2002.

UWEC *Faculty/Student Research Collaboration, University of Wisconsin System Symposium*, "*Asset marketability and liquidity analysis*"**, Writer,** 2000-2001 ($1800 funded)

Society of Actuaries *Call for Proposal* "*Asset liquidity modeling and analysis*", **Writer** 2001-2002 ($34,000 funded)

RECENT TEACHING EXPERIENCE

CWU

Math 130	Finite Mathematics	(2004-9)
Math 153	Pre Calculus I	(2006)
Math 173	Calculus II	(2004)
Math 311	Statistical Concepts and Methods	(2001-5, 9)
Math 410A	Advanced Statistical Methods I	(2002-7)
Math 410B	Advanced Statistical Methods II	(2003-7)
Math 411A	Introduction to Probability Theory	(2001, 2008)
Math 411B	Mathematical Statistics I	(2002, 2009)
Math 411C	Mathematical Statistics II	(2009)
Math 413	Introduction to Stochastic Process	(2002)
Math 414	Time Series Analysis	(2006)
Math 416A	Actuarial Seminar II	(2002-6)
Math 416B	Actuarial Seminar III	(2003-6)
Math 418A	Financial Mathematics I	(2002-7)
Math 418B	Financial Mathematics II	(2003-7)
Math 418C	Financial Mathematics III	(2003-7)
Math 419A	Actuarial Mathematics I	(2002-5)
Math 419B	Actuarial Mathematics II	(2003-5)
Math 419C	Actuarial Mathematics III	(2003-5)
Math 417A	Loss Models I	(2003)
Math 417B	Loss Models II	(2004)
Math 417C	Loss Models III	(2004)
Math 299	Actuarial Seminar I	(2004)

ADVISING

Field trips to local insurance firms, 2002-present

Secondary advisor of senior thesis for Jennifer Lampi, student of the **William O. Douglas Honors College**, 2004. Thesis entitled “Paradise Lost and the Image of a Tyrant: Comparison of Satan and King Charles I”.

Advisee Jennifer Lampi received the 2004 **departmental scholarship** of $1000.

Advisee Jill McCurdy, received the 2003 **Society of Actuaries *Wooddy* Scholarship**, a prestigious international honor in Actuarial Science, with the award of $2000 and her name and university recognized, 2003.

Secondary advisor of senior thesis for Tim Denny, student of the William O. Douglas

Honors College, 2003.

Advisee Gabriel Smith received the 2003 **departmental scholarship** of $1000 and the ***Award of Men and Women of the 50's***, 2003.

All the senior major students passed the rigorous **actuarial exam 1** in May 2003. The program reached the record of 100% passing rate (the nation's mean of 30%), 2003.

Advise **Actuarial Science Club** and organize field trips, 2001-present.

Advise courses taking, study plans, internships, guest presentations, and career planning, job placements, 2001-present.

TEACHING WORKSHOPS ATTENDED

"*Just In Time Teaching*", ***Curriculum Reform Institute*, UWS Women and Science Program**, Oshkosh, Wisconsin, USA, 2003.

"*Gender Friendly Classroom Teaching*", ***Curriculum Reform Institute*, UWS Women and Science Program**, Oshkosh, Wisconsin, USA, 2003.

"*Helping the Learner to Learn in the Life Science Classroom*", ***National Chautauqua Short Course Program*, University of Washington-Seattle**, 2001.

"*Creativity and Innovation*", ***National Chautauqua Short Course Program*, University of Washington-Seattle**, USA, 2000.

"*Innovation and Persistent International Inequality*" ***National Chautauqua Short Course Program*, University of Washington-Seattle**, USA, 2000.

"*Inclusion of Student-Centered Pedagogies in Science, Engineering, and Mathematics*", ***UW System Conference for New Faculty*, University of Wisconsin-Madison**, USA, 1999.

RESEARCH/PROFESSIONAL CONFERENCES ATTENDED

CANW (Casualty Actuaries of the Northwest) Spring Meeting, Seattle, USA, 2008

Simon Fraser University Actuarial Science and Statistics Seminar, Burnaby, B.C., Canada, 2007

Hawaii International Conference on Mathematics, Statistics and Related Fields, Honolulu, U.S.A., 2007.

SOA (Society of Actuaries) Health Spring Meeting, Seattle, USA 2007

SOA (Society of Actuaries) Annual Meeting, Chicago, USA, 2006

CANW (Casualty Actuaries of the Northwest) Fall Meeting, Vancouver, B.C., Canada, 2006

CANW (Casualty Actuaries of the Northwest) Spring Meeting, Seattle, USA, 2006

Leadership Development Program for Higher Education Conference, Asian Pacific Americans in Higher Education, LEAP, Los Angeles, USA, July 2006

Enterprise Risk Management Symposium, **Society of Actuaries**, Chicago, USA, April 2006

International Mathematica Symposium, **Wolfram Research**, Banff, Canada, August 2004.

Stochastic Modeling Symposium, Canadian Institute of Actuaries, Toronto Canada, September 2003.

International Conference in Actuarial Science, Statistics, and Financial Mathematics, **Hong Kong University**, Hong Kong, China, December 2002.
Aetna Research Symposium, **Aetna Insurance Company**, Hartford, Connecticut, USA, 1999.

SERVICES

Exam P and Exam FM Item Writer for Society of Actuaries and Casualty Actuarial Society, 2009

Nominee of Education and Research Council Member of Society of Actuaries, 2009

External Member of the **Search Committee** of Computer Science Department, 2008-9

AP Statistics Reader, 2007 & 2008

Scholarship Reader, **RHMC/ASIA Scholarship Program**, Ronald McDonald house Charities/Asian Pacific American Students Increasing Achievement, 2007

Community Engagement and Economic Development (CEED) Task Force for CWU, 2005-present

Judge for 2005, 2006 **CWU SOURCE** event.

Member of the **Personnel Committee** of Mathematics Department, CWU, 2005-6.

Member of the **Search Committee** for a Mathematics Education faculty position, CWU, 2003-4.

Member of the S**earch Committee** for a Mathematics Education faculty position, CWU, 2004-5.

Member of the S**earch Committee** for a Mathematics Education faculty position, CWU, 2005-6.

Expert Witness providing the state with **expert testimony and probability analysis;** for a state gambling fraud case, prosecuted by the **Grant County** prosecuting attorney John Knodell's office, 2003-4.

Assisted the university scholarship and grant writing offices in **fund-raising** for Actuarial Scholarships, 2003-4.

Prepared and mentored students to complete statistical projects and presentations at the annual **CWU *SOURCE*** (symposium of undergraduate research and creative expressions), 2001-4.

Curriculum Reform Institute, UWS Women and Science Program, Oshkosh, Wisconsin, Team member of the project "*Development of an Interdisciplinary Science Course for Freshmen*" June 14-18, 2003.

Expanding Your Horizons One-day Career Conference, directed math workshops to middle school girls of Washington State, 2003.

External member of the **search committee** for a Computer Science faculty position, CWU 2002-3.

Member of the **search committee** for four Math faculty positions, CWU, 2001-6.

Provided **recommendation** letters and served as reference for students and graduates, 1999-present.

Served as a **statistical consultant** for CWU students, faculty, and the community, 2001-present.

Served as an **actuarial consultant** for CWU students, faculty, local and the professional communities, 2001-present.

SPECIAL RECOGNITIONS

2007-8 **CWU** Faculty Professional Leave
2007-9 **CWU Mathematics Department** Travel Sponsorship
2007-9 **CWU Graduate Studies and Research** Travel Grants
2007-9 **CWU College of the Sciences** Faculty Travel Grants
2006 Nominated and sponsored for **Leadership Development Program for Higher Education**
2006 **CWU Mathematics Department** Travel Sponsorship
2005 Met **CWU** Merit Level II standards
2004 Met **CWU** Merit Level II standards
2004 Associate Member of **CWU** Graduate Faculty
2004 **CWU Mathematics Department** Travel Sponsorship
2004 **CWU Graduate Studies and Research** Travel Grants
2003 Travel grant/honorarium form **Canadian Institute of Actuaries**
2003 Met **CWU** Merit Level II standards
2003 **CWU Graduate Studies and Research** Travel Grants (two times)
2003 **CWU College of the Sciences** Travel Grant
2003 **CWU Mathematics Department** Travel Sponsorship
2003 **Canadian Institute of Actuaries** Travel Sponsorship
2002 **CWU Summer Research Appointment**
2002 Met **CWU** Merit Level II standards
2002 **CWU Graduate Studies and Research** Travel Grant
2002 **International Studies and Programs** Travel Grant
2002 **CWU Mathematics Department** Travel Sponsorship
2000 Membership of **American Academy of Actuaries** (MAAA)
1993-9 **University of Connecticut** Graduate Teaching Assistantships
1998-9 **Aetna** Research Grant Award
1998-9 **University of Connecticut** PhD candidate fellowship
1998 **Aetna** Recognition of Contribution Award from Aetna Retirement Services
1997-9 Internships from **UConn-Aetna** Graduate Internship Program
1996 **Teaching Prize** at the **University of Connecticut**, Storrs
1995 Annual Teaching Tips Award at the **University of Connecticut**, Storrs
1994 **Pi Mu Epsilon** honor member

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