

# Chia-Lin Wu

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## EDUCATION

Ph.D. in Mathematics, University of California, Irvine, CA, 1996.

M.A. in Mathematics, California State University, Long Beach, CA, 1991.

B.A. in Mathematics, National Kaohsiung Normal University, Taiwan, R.O.C, 1984.

## EMPLOYMENT

**2015-Present:** Professor of Mathematics, School of Natural Sciences and Mathematics, Stockton University

**2001-2014:** Associate Professor of Mathematics, School of Natural Sciences and Mathematics, The Richard Stockton College of New Jersey.

**1996-2001:** Assistant Professor of Mathematics, School of Natural Sciences and Mathematics, The Richard Stockton College of New Jersey.

**1991-1996:** Teaching Assistant, Department of Mathematics, University of California, Irvine.

**1986-1988:** Junior High Mathematics Teacher, Taiwan, R.O.C.

## ADMINISTRATIVE, ADVISORY, AND LEADERSHIP POSITIONS

**2010-present:** Mathematics Program Coordinator, School of Natural Sciences and Mathematics, The Richard Stockton College of New Jersey. Roles and Responsibilities include Creation, Development and Maintenance of the Mathematics Program.

**2010-present:** The Richard Stockton College Dual Enrollment Program Mathematics liaison team leader. Supervised and provided Professional Developments to participating dual enrollment high schools.

**2011-2013:** Essential Learning Outcomes Committee—*Adapting to Changes* group representative.

- 2013-2015:** Math and Sciences Partnerships project—*Stockton Coastal Collaborative* director. Provided Workshops and guidance to teachers in K-12 preparation on Common Core State Standards and Partnership for Assessment of Readiness for College and Careers (PARCC).
- 2014-present:** Stockton 2020 Common Core and PARCC Leadership Team. Representing Mathematics Program as the member of Stockton 20/20 initiative project on Common Core and PARCC.
- 2011-present:** Professional Development for high school mathematics teachers. Provide various professional developments for regional high school math teachers. Served as both organizer and presenter.
- 2012-present:** Stockton Mathematical Mayhem director. Math competition for regional high schools to reduce math test anxiety, increase student confidence and provide high school students with an inside view of college life.
- 2014-present:** AtlantiCare Regional Medical Center Statistics consultant. Pharmaceutical research project consultant.
- 2013-present:** Atlantic Cape Community College Mathematics Department Advisory Board. Provided advice and support to the ACCC Mathematics department on existing and proposed educational and academic programs.
- 2012:** Atlantic Cape Community College Mathematics program review consultant. Author of Program review and Assessment report.
- 2012-present:** Master Thesis Adviser—*Markov Chains and Its Applications to Kidney Transplant Survival Rate*. Supervised Computational Sciences graduate student thesis.
- 2011:** Research Experience for Undergraduate Fund project adviser. Project title *Cycloids: An Inquiry Based Approach to Geometric Curves*. by Erin Clay. Published in *Stockton Innovations, volume 1, 2012*.
- 2011:** Stockton Board of Trustees Fellowships for Distinguished Students project adviser. Project title *The subword complexity of finite Worlds* by Somyi Baek.
- 2010-2012:** Stockton Faculty Senate. Served as the representative body elected by the Faculty to provide a Faculty voice in the formulation of College policy.
- 2001-present:** Stockton Mathematics Club adviser. Advise and provide students with opportunities which broaden and enrich their participation in the world of mathematics. Established the National Honor Society chapter for the Stockton Mathematics Club.
- 1998-present:** Asian Students Alliance club adviser. The Asian Student Alliance brings forth the Asian culture, discusses important relevant issues in today's modern Asian society and bridges the gap with the Asian culture and other existing cultures at this institution.

**1986-1988:** Junior high school counselor. Duties include tutoring and supervising socially disadvantaged students.

**1984-1986:** Lieutenant, Reconnaissance platoon, Taiwan, R.O.C.

## **Courses Taught at Richard Stockton College of NJ**

**CSIS 1206** Statistics

**CSIS 2215** Bridges: Computers and Calculus

**CSIS 3327** Applied Probability and Statistics

**CPLS 5570** Numerical Optimization (*graduate course*)

**EDUC 2553** Middle School Mathematics (*developed course*)

**GEN 1101** Foundations in Mathematics (*Educational Opportunity Funds program course*)

**GNM 2113** History of Mathematics (*developed course*)

**Math 1100** Precalculus

**Math 2215** Calculus I

**Math 2216** Calculus II

**Math 2217** Calculus III

**Math 2225** Discrete Mathematics

**Math 3325** Foundations of Mathematics

**Math 3328** Differential Equations

**Math 4431** Advanced Calculus (*Real Analysis*)

**Math 4461** Numerical Analysis

**Math 4481** Topics in Math (*Functional Analysis*)

**Math 4481** Topics in Math (*Stochastic Process*)

## **PUBLICATIONS**

### **Refereed Journals:**

*Increasing Math Proficiency in High School Teaching: A Model for a College and Community Partnership.* Bradley Forrest, Pamela Kosick, Judith Vogel and Chia-Lin Wu, *The Journal of Public Scholarship in Higher Education*, **2** (2012) 50-75.

*Mathematical Achievement of High School Students through Community Partnership: A Red Balloon Initiative.* Bradley Forrest, Pamela Kosick, Judith Vogel and Chia-Lin Wu, in *Teacher-Scholar: The Journal of the State Comprehensive University*, 4, no. 1 (2012) 29-38.

*Why Do I Have to Take Calculus.* Jill Gerhardt, Judith Vogel, and Chia-Lin Wu, *Information Systems Education Journal*, Vol. 4 (2006).

*Impact of the Business Ethics 100 Listing on Stock Prices.* S. Zhao, Chia-Lin Wu. *Business Ethics Quarterly*, Vol. 12, No. 6. 1998.

### **Proceedings:**

Judith Vogel and Chia-Lin Wu, *An Institutional Partnership: Ensuring Consistency in Course Content.* Proceedings of the 2013 Tri-State Best Practices Conference, 2013.

*Why Do I Have to Take Calculus.* Jill Gerhardt, Judith Vogel, and Chia-Lin Wu, Proceedings of the 22nd Annual Information Systems Education Conference, Vol. 22 (2005).

*Impact of an Ethics Awards on Stock Prices.* S. Zhao, Whiten Paine, and Chia-Lin Wu. 28th Annual meeting- North East Decision Sciences Institute, (1999) 18–20.

### **Conference Presentations:**

*Understanding Fears and Misconceptions of the Common Core,* with Judith Vogel. New Jersey Association of Mathematics Teachers Educators 8th Annual Conference, 05/22/2014.

*Stockton's Dual Credit High School Partnership Program,* with Dean Weiss, Patty Weeks, Donna Blair, and Meghan Hallman. Bridge Conference: Connecting Higher and K-12 Education, 05/01/2014.

*Redefining the Role of Faculty in Teacher Preparation and Student Readiness,* with Judith Vogel. New Jersey Association of Mathematics Teacher Educators 7th Annual Conference, 05/23/2013.

*A Math Partnership Program: Redefining the Role of Higher Education,* with Bradley Forrest and Judith Vogel. American Association of University Professors, Annual Conference on the State of Higher Education, Washington D.C., June 2013.

*Veteran Minority Issues* panel. Stockton Veteran office, 02/26/2013.

### **Articles in Progress:**

*Markov Chains and Its Applications to Kidney Transplant Survival Rate.* Christine Harvey, Chia-Lin Wu. To be submitted.

## GRANTS:

**Research & Professional Development Grant, The Richard Stockton College of New Jersey:** Spring 2015, Title—*Stockton Coastal Collaborative in Mathematics and Common Core State Standards (CCSS)*. \$1,650.

**Stockton Coastal Collaborative in Mathematics:** 2013-2015. Director. Mathematics and Sciences Partnerships (MSP) project, Department of Education, New Jersey. #13-MS10-G07. \$906,750.

**Provost's Faculty Opportunities Fund:** with Judith Vogel. Spring 2012. \$2,000.

**Provost's Program Assessment Award:** Spring 2013. \$1,683.

**Academic Support for E-Learning (ASE):** Awarded Fall 2013.

**National Science Foundation Grant:** Fall 2003-Fall 2007. Co-PI, CSAM scholarship, grant number #0323917. \$400,000.

**National Science Foundation Grant:** Fall 1999-Summer 2002. Writer of supplemental textbook to introductory Business course.

**Research Experience for Undergraduate Funding Award, The Richard Stockton College of New Jersey:** Fall 2011. \$1,800.

**Research & Professional Development Grant, The Richard Stockton College of New Jersey:** Spring 2011-Summer 2011, Title—*Summer Professional Development Workshop for High School Mathematics Teachers*. \$7,500.

**Research & Professional Development Grant, The Richard Stockton College of New Jersey:** Fall 1999-Fall 2000, Title—*Teaching Calculus with Maple V*. \$5,000.

## HONORS, AWARDS

**Mathematics Association of America Continuous Service Award:** Fall 2013, awarded by New Jersey Chapter of MAA.

**Meritorious Award ISECON 2005:** with Jill Gerhardt, Judith Vogel. Information System Education Conference, 2005.

**NAMS Professor of the Year:** 1998-1999, 1999-2000, 2002-2003. Awarded by the Student Senate of the Richard Stockton College of New Jersey.

**Faculty Adviser of the Year:** 2001-2002. Awarded by the Student Senate of the Richard Stockton College of New Jersey.

**Outstanding Teaching Assistant of Mathematics Department 1994-1995:**

First recipient of this award through School of Physical Sciences, University of California, Irvine.

**Outstanding Teaching Assistant of Mathematics Department through Instructional Development Services:**

First recipient of this award in the Mathematics Department, 1995 University of California, Irvine. Award was given to those people who were recognized by IDS for excellent teaching.

**University of California Regents Dissertation Fellowship:**

Recipient of Regents fellowship, spring 1995.

**Outstanding Junior High School Teacher of the Year :**

Awarded by Taipei County, Taiwan. 1987

**Professional Organization Memberships**

Mathematics Association Of America

New Jersey Association of Mathematics Teacher Educators