

## CURRICULUM VITAE

### **Louis M. Friedler**

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### **1. Education**

Colby College, Waterville, ME 9/62-6/66. B.A. Mathematics

Case Western Reserve University, Cleveland, OH 9/66-8/70. M.S. Mathematics

University of Alberta, Edmonton, Alberta, Canada 9/70-8/72. Ph.D. Mathematics

### **2. Experience**

#### **a. Full-Time Academic**

The University of Texas, Instructor. 9/72-8/74.

University of Missouri, Columbia, MO

Visiting Assistant Professor. 9/74-8/76.

College of St. Scholastica, Duluth, MN 9/78-8/85.

Associate Professor: 4/82-8/85.

Chair: 9/80-8/85.

University of Bridgeport, Bridgeport, CT 9/85-10/90.

Chair and Associate Professor: 9/85-4/89.

Chair and Full Professor: 5/89-10/90.

Beaver College/Arcadia University, Glenside, PA 9/91-present.

Associate Professor: 9/91-8/94

Professor: 9/94- present

Chair: 9/93-5/96, 9/03- 8/08

University of Ghana, Legon, Accra, Ghana

Visiting Professor: Spring 1997

#### **b. Other**

CNA Insurance, Chicago, IL Actuarial Mathematician, 9/77-8/78.

Junior Scholar Program, Cleveland, OH, Instructor. Summer 1969, 1970. The Junior Scholar Program was a summer program for bright college-bound minority students.

Project Start, University of Missouri, Summer 1975, 1976.

Project Start was a summer program for incoming minority freshmen.

### 3. Publications/Invited Talks

#### a. Publications

1. Independent sets in products of graphs, *Ars Combinatoria* (to appear)
2. Internationalizing the University Mathematics Curriculum, (with P. Appelbaum, C. Ortiz, E. Wolff) *J. Studies in International Education* 13 (2009), 365-381.
3. Calculus in the US: 1940-2004, *Studies in College Mathematics*, 8 #3 (May 05), 6-11 (in Chinese).
4. Domination graphs of tournaments and other digraphs (with Deborah Bergstrand), *Ars Combinatoria*, 74 (2005), 89-96
5. A characterization of a topology on the countably infinite random graph (with Charles M. Grinstead), *Topology and its Applications*, 124 (2002), 465-473.
6. Notes on teaching mathematics in Ghana, *PRIMUS* 9(1999), 333-338.
7. Almost homeomorphisms of compact spaces (with Arkady Kitover), *Topology and Appl.* 81(1997), 233-246
8. Compactly functionally compact spaces (with Jack Porter), *Houston J. Math.* 22(1996), 775-785.
9. The space of maximal complete subgraphs (with Harold W. Martin), *Proceedings 9th Gen Top Conference, Annals N Y Acad Sciences* 767 (1995), 62-72.
10. Problem-solving with discrete mathematics, *Teaching Children Mathematics* 2(1996), 426-431.
11. A survey of R- and U-closed spaces (with Dix H. Pettey, Jack Porter, and Mike Girou), *Topology Proceedings*, 17(1992), 71-96.
12. Aleph-projective spaces (with Stephen Willard), *Rocky Mt. J.*, 21 (1991), 1250-1277.
13. Preimages of compact  $T_1$  spaces,  $Q$  and  $A$  in *General Top.*, 6 (1988), 57-60.
14. Fuzzy closed and fuzzy perfect mappings, *J. Math. Anal. Appl.*, 155 (1987), 451-460.
15. Paracompact  $c$ -scattered spaces (with Harold W. Martin and Scott W. Williams), *Pacific J. Math.*, 129 (1987), 277- 296.
16. Book Review of Actuarial Mathematics by Bowers et. al., *Amer. Math Monthly*, 93 (1986), 491-493.
17. Hyperspaces of R-closed spaces (with Dix H. Pettey), *Math Chron.*, 12 (1983), 105-107.
18. Hyperspaces of H-closed spaces (with R.F. Dickman, Jr. and R. L.Krystock), *Canad. J. Math.* 32 (1980), 1072-1079.
19. Resolutions of H-closed spaces, *Proc. Amer. Math. Soc.* 71 (1978), 309-312.
20. Inverse limits and mappings of minimal topological spaces (with Dix H. Pettey), *Pacific J. Math* 71 (1977) , 429-448.
21. Absolutely closed maps, *Proc. Amer. Math. Soc.* 51 (1975),186-190.
22. Products of RC-Proximity spaces, *Proc. Amer. Math. Soc.* 43(1974), 226-228.
23. Regular maps and products of p-quotient maps, *Fundamenta Math*, 80 (1973), 295-303.
24. Quotients of proximity spaces, *Proc. Amer. Math. Soc.* 37 (1973), 589-594.
25. Open, connected functions, *Canadian Math Bull.* 16 (1973), 57-60

- b. Technical Reports/Lab Manuals
  - 1978 Long Term Disability Product Review. CNA Insurance Co.
  - SPSS Lab Manual for Elementary Statistics, (with David Weiner), 2005. (Revised 2008)
- c. Invited Talks
  - Math. Depts. of Lake Superior Association of Colleges and Universities, "Hyperspaces of Topological Spaces," 10/1978.
  - St. Cloud State University, "What is an Actuary?," 4/1982.
  - University of Minnesota - Duluth, "Recent Trends in Actuarial Mathematics," 9/1984.
  - Fairfield University, "What is an Actuary?," Spring 1986.
  - Swarthmore College, "What is an Actuary?," 3/1988.
  - American Mathematical Society Special Session on Extremely Disconnected Spaces, "Aleph-projective spaces," Muncie, IN. 10/1989.
  - Harding High School, Central High School, Bridgeport, CT. "Careers in Mathematics," Spring 1990.
  - University of Ghana, Legon, Ghana. "Using technology for teaching math in the U.S.," April 1997
  - St Joseph's University, "From Here to There: Simple Problems to Real Mathematics," April 2000.
  - East China Normal University, "Topology on the Countable Random Graph," May 2000.
  - University of Ghana, "Open Problems in Discrete Mathematics," March 2003.
  - East China Normal University, "Calculus in the US: 1940-2004," June 2004

#### 4. Professional Activities

- a. Associate of the Society of Actuaries (1980)
- b. Pennsylvania Secondary Mathematics Certification (1991).
- c. Professional Memberships
  - American Mathematical Society (1971-2000)
    - A.M.S. Local Arrangements Committee, Summer Meeting 1979, Duluth, MN.
  - Mathematical Association of America (1980-present)
  - Society of Actuaries (1980-present)
- d. Reviews
  - 59 published reviews in Zentralblatt fur Mathematik (1975-2004).
  - Finite Math text, Worth Publishers, 1973.
  - General Topology text, PWS-Kent, June 1990.
  - General Topology text, PWS-Kent, October 1990.
- e. Refereeing
  - Canadian Math Bulletin, 1973.
  - Bulletin Sinica Institute, 1989.
- f. Awards

College Scholarship, Colby College, 1962-66.  
 University Fellowship, Case Western Reserve University, 1966-1970.  
 Teaching Assistantship, University of Alberta, Edmonton, Alberta, Canada, 1970-72.  
 Dana Planning Award, University of Bridgeport, Spring 1990. (Awarded for recruitment/community service activities).  
 Faculty Development grants, College of St. Scholastica, (Several between 1978 and 1985).  
 Faculty Development Grants, Beaver College/ Arcadia University. (Several between 2001- present).  
 Sabbatical, Fall 2006.

- g. Workshops  
 Co-presenter (with Ned Wolff), National Science Foundation sponsored workshop, Reform Calculus for High School Teachers, Summer 1998, 1999, 2000, 2001.  
 Programming in Maple, East China Normal University, May 2002  
 Co-presenter (with Deborah Bergstrand), National Science Foundation sponsored workshop, Teaching Discrete Mathematics, Summer 2005, 2006, 2008.

## 5. Service

- a. Grants  
 November 1992. Wrote and submitted a proposal to the Instrument and Laboratory Improvement Program of N.S.F. Proposal was for 15 486 computers and server used to change Beaver's elementary statistics course to a lab-based course. Funded (April 1993) \$19,258.
- b. Recent Committee and Administrative responsibilities (Beaver/Arcadia)  
 Computer Science and Mathematics Department Chair, 1993-96, 2003-2008  
 Curriculum Inclusiveness Task Force, 1991-93.  
 Search Committee for VP for Enrollment Management, 1992  
 A.A.U.P Vice President, 1992-94  
 Member CEA visiting panel for Irish universities, Feb. 1996  
 Undergraduate Academic Policy Committee, 1993-96. Chair, 1994-96  
 Instructional Resources Committee, 1993-96  
 Faculty Compensation Committee, 1997-2000. Chair: 1999-2000.  
 Beaver Middlestates Committee for Internationalization, 1997-1999  
 Faculty representative to Internationalization Committee of Board of Arcadia University, 1999- 2004.  
 Faculty representative to "Promising Practices Committee" for A.C.E.  
 General Education Task Force, 1999-2002.  
 Patents Task Force, 2003.  
 Math/Science Curriculum Task Force, 2004  
 Internationalization Committee, 2004-2009  
 Faculty Forum Committee, 2005-6, 2007-9  
 Middle States Committee on University Assessment  
 Shared Futures Committee, Summer 2007.

Instructional Technology Committee, 2009-2010

c. Course/Curriculum Development (Arcadia University)

Developed new courses: Actuarial Seminar, Theory of Interest, Graph Theory and Combinatorics, International Experience: Modern China, Chinese Film: A Window on China.

Developed (with Ned Wolff) new Actuarial Science Concentration within math major

Developed (with Peter Appelbaum) new minor in mathematics education.

**6. Community Service (Professional)**

Judge, PRESS Awards - Spring 1983, Spring 1984.

These awards were sponsored by the Duluth Tribune to reward talented high school students.

Bridgeport Public Schools, Spring 1990. Gave talks on "Careers in Math." Invited students to tour the University of Bridgeport's campus. Coordinated three visits of 30 students each. Objectives: to improve town/gown relations, interest minority students in careers in science, and aid U.B.'s recruitment efforts.

Dimensions in Math Committee, Swarthmore - Rutledge Elementary School, 1991-1993.

This committee advises and assists the elementary school.

Math Olympiad Teacher, Swarthmore - Rutledge Elementary School, Fall 1990-Spring 1993

Worked bi-weekly with mathematically gifted 4th and 5th graders.

Math volunteer, Strath Haven Middle School, Wallingford, PA. Worked regularly with 6th, 7th, and 8th graders, 1993-96.

Evaluator/Grader, Strath Haven High School. Helped evaluate effectiveness of new curriculum. Fall 1999, Fall 2000.

Facilitator for grant of 5500 TI-83 calculators to the University of Ghana to improve secondary teaching in Ghana, 2003-2004.

Instructor, Microsoft Office class, sponsored by Community Action Agency of Delaware County, Spring 2006.

**7. Courses taught**

Probability, Mathematical Statistics, Elementary Statistics, Discrete Math, Graph Theory and Combinatorics, Actuarial Seminar, Numerical Analysis, Theory of Interest, Introduction to Analysis, General Topology, Linear Algebra, Abstract Algebra, Mathematical Logic, Differential Equations, Calculus I, II, III, Calculus for Business Students, Finite Math, Precalculus, College Algebra, Basic Concepts (a "Math Appreciation" course for liberal arts majors), Modern China (an Honors course), Chinese Film: A Window on China (an Honors course), Teaching Discrete Mathematics (a graduate Education course).