

## David A. Krebs

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### CONTACT INFORMATION

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[www.dkrebes.weebly.com](http://www.dkrebes.weebly.com)

*Place of Residence:* Calgary, AB

EDUCATION	PhD	math	University of Illinois at Chicago	1997
	MSc	math	University of Toronto	1991
	BSc	math	University of Alberta	1990

EMPLOYMENT  
HISTORY

- Security Personnel – Calgary Stampede 2014
- Mathematics, Language tutoring – 2014 –  
Oxford Learning Calgary West present
- Private mathematics tutoring 2002 –  
present
- Mathematics teaching – 2010 – 2012  
Sylvan Learning Centre  
Bannister Road, Calgary
- Contract Academic Staff 2006 – 2009  
(Sessional Instructor)  
University of Alberta Math Department  
Math 222 (Problem Solving),  
Math 120 (Linear Algebra),  
Math 114 (Calculus I),  
Math 322 (Graph Theory) and  
Math 209 (Calculus III for Engineers)
- Cashier - Canada Safeway 2002 – 2005
- Sessional Instructor - University of Calgary 2000  
Introduction to Topology
- Lecturer Southern Illinois University 1999 – 2000
- Visiting Assistant Professor 1998 – 99  
University of South Alabama
- Post-Doctoral Fellow 1997 – 98  
University of British Columbia
- Busser 1989  
Franzl's Gasthaus, Calgary

- PRESENTATIONS
- "Factoring a Quadratic Polynomial into a Product of Binomials" (21 minutes; Grade 11 material) Teaching Sample - [YouTube video](#) 2014
  - "An Invariant of Systems of Loops Immersed in the Plane" 2013 North-South Dialogue, University of Calgary May 2013
  - "An Obstruction to Embedding 4-Tangles in Links" Math Department, University of Calgary September 2012
  - "Units of the String Link Monoids" Canadian Mathematics Society Summer Meeting, Regina, Saskatchewan June 2012
  - "Introduction to Knot Theory" presentation for Undergraduate Math Sciences Society, University of Alberta October 2007
  - Outreach mathematical presentations to students in the Edmonton Public School System, University of Alberta 2007
- TRAINING
- Cardio-pulmonary Resuscitation for Health Care Providers, Canadian Red Cross October 2013

COMMUNITY  
INVOLVEMENT

- “Math Minds” program for elementary schoolchildren at Calgary Public Library implementing John Mighton’s “JUMP” method July 2014
- Volunteer, weekly Catholic mass, Beverly Nursing Home 2014 – present
- Volunteer computer assistance, The Kerby Centre 2014
- Board Member, Schizophrenia Society of Alberta 2013 – present
- Volunteer, Servants Anonymous Society Book Drive and Sale 2010 – 2013
- Poetry events at various seniors’ residences – reciting and discussing metered verse by eg. Keats, Tennyson, Shakespeare 2004 – present
- University of Calgary Math Outreach Program for students in grades 6-12 - Bill Sands and Robert Woodrow, organizers – Volunteer 2012 – 2013
- President, Y Toastmasters Club, Edmonton 2009 – 2010
- Teaching knots to boy scouts, Edmonton 2008
- Administrative Co-ordinator for “Inn From the Cold” homeless society at parish level 2004 – 2006
- Late Overnight Shift “Inn from the Cold” 30+ events on “as needed” basis 2004 – present
- “Arithmetic Using Rulers” Workshop conducted at Potential Place, Calgary AB 2006
- Volunteer Income Tax Program – Revenue Canada 2004
- Group Leader for University of Calgary High School Science Enrichment Project Winter 2001
- Shad Valley Program 1983

TECHNICAL CAPABILITIES

- Microsoft Office Suite
- Unix/Linux Operating Systems
- Emacs Text Editor
- C, Pascal, Fortran Programming Languages

PUBLICATIONS “Units of the String Link Monoids,” 9 pages, 5 figures. “Knots in Poland III Conference Proceedings” *Banach Centre Publications*, recommended March 2013. <http://front.math.ucdavis.edu/1304.4684>

(with Daniel Silver and Susan Williams) “Persistent Invariants of Tangles,” *Journal of Knot Theory and its Ramifications* 9 (2000), 471-478.

“An Obstruction to Embedding 4-Tangles in Links”, 32 pages, 17 figures. *Journal of Knot Theory and its Ramifications* Vol. 8 No. 3 (May 1999), 321-352. <http://front.math.ucdavis.edu/9902.5119>

REFERENCES Available upon request