

VITAE OF  
**Ralph McKenzie**

Updated December 2017

**Born:** October 20, 1941, Cisco, Texas

**Education:**

B.A., University of Colorado, 1963  
Ph.D., University of Colorado, 1966

**Professional Positions:**

Instructor, UC Berkeley, 1966  
Assistant Professor, UC Berkeley, 1967–1971  
Associate Professor, UC Berkeley, 1971–1978  
Professor, UC Berkeley, 1978–1994  
Professor Emeritus, UC Berkeley, 1994–  
Distinguished Professor, Vanderbilt University, 1994–

Visiting Assistant Professor, University of Colorado, 1970–71  
Member, Institute for Advanced Study, Princeton, 1971-72 (sponsor: Kurt Gödel)  
Academic Guest at E.T.H., Zürich, [Spring] 1978  
Visiting Professor, University of Hawaii, [Fall] 1983  
Visiting Professor, University of Siena, Italy, [Spring] 1984  
Visiting Researcher, LaTrobe University, Melbourne, [Fall] 1989  
Ulam Professor, University of Colorado, [Spring] 1990

**Awards and Honors:**

Elected Fellow of the American Mathematical Society, 2016  
Plenary Lecture at the AMS meeting in Louisville, Kentucky, October 2013  
KAM Mathematical Colloquium (distinguished lecture(s) organized 2-3 times a year  
by the Faculty of Mathematics and Physics of Charles University, Prague), March  
2010  
Plenary Lecture at the 2003 Meeting of the Association for Symbolic Logic  
Fifteenth Annual Alfred Tarski Lectures, University of California at Berkeley, 2003  
Plenary lecture at the Alfred Tarski Centenary Conference, Warsaw, Poland, 2001  
Evelyn Nelson Lecture, McMaster University, Canada, 1993  
Plenary Lecture at the 1990 Summer Meeting of Canadian Mathematical Society  
Ulam Professor, University of Colorado, [Spring] 1990  
Plenary lecture at the Third International Conference on the Theory of Groups and  
Related Topics, Canberra, Australia, 1989  
Plenary lecture at the International Conference on Algebra in Honor of A. Malcev,  
Novosibirsk, USSR, 1989  
Fulbright Senior Scholar, [Fall] 1989  
Sloan Foundation Fellow, 1973–75  
NSF Postdoctoral Fellow, 1971–72  
NSF Graduate Fellow, 1963–66

**Professional Service:**

Editorial Board, *Algebra Universalis*, 1970–2008  
Editorial Board, *International Journal of Algebra and Computation*, 1990–  
Editorial Board, *Acta Universitatis Carolinae (Mathematica et Physica)*, 2009–  
Committee for the Alfred Tarski Lectures, Berkeley, 1989–  
Fulbright Advisory Committee for Mathematics (chair), 1992–1995

## Organization of conferences:

2017 BLAST 2017, conference at Vanderbilt August 14–18 (I was the chair of the organizing committee, and the budget master)  
2016 International Workshop on Structure and Algorithms, Vanderbilt September 19–30 (I was the initiator and principal organizer)  
2007 International Conference on Order, Algebra, and Logics (the Shanks Conference), Vanderbilt, June 11–15  
2007 Shanks workshop conference on The Algebraic Approach to Constraint Satisfaction Problems, Vanderbilt, June 17–20  
2004 AMS Southeastern Regional Meeting, special session on Universal Algebra and Lattice Theory, Vanderbilt  
2004 Algebras, Lattices, Varieties: a conference to honor Walter Taylor, Boulder  
2004 Logic Colloquium 2004, Torino (member of the Program Committee)  
2001 Tame Congruence Theory Workshop, Budapest  
2000 Ordered Sets and Algebras at Vanderbilt  
1999 Algebra at Vanderbilt  
1997 to 1999, Vanderbilt and Louisville Algebra Workshops [four times a year]  
1996 Algebraic Model Theory, year at Fields Institute, Toronto (1996–1997)  
1996 Modern Algebra and its Applications, Vanderbilt  
1993 Workshop Conference on Universal Algebra and Category Theory, MSRI, Berkeley  
1992 Alan Day Conference, Ontario  
1990 Jónsson Symposium, Iceland  
1986 Fine Structure Symposium, Berkeley  
1982 Puebla Conference, Puebla, Mexico

**Grant Support:**

Principal investigator for a collaborative five university research grant, (DMS–1500174, from NSF), September 2015 – September 2018. The participating colleagues and universities are U. Colorado (K. Kearnes and A. Szendrei), U. Hawaii (R. Freese), Iowa State U. (C. Bergman), U. South Carolina (G. McNulty) and Vanderbilt. The three-year Vanderbilt portion of the budget is \$103,519.  
Co-principal investigator for a grant USCRDF–KYM1–2852–B1–07 (2007–2009 US–Eurasian cooperative research, \$52,867), and NSF grant DMS–0710339 (2007–2008 conference grant, \$24,471).

Principal investigator for NSF grants DMS–8302295 (1981–86), DMS–8600300 (1986–89), DMS–8904014 (1989–92), DMS–9596043 (1994–1999), DMS–0245622 (2003–2006, \$100,004) [extended through August, 2007] and DMS–0604065 (2006–2009, \$110,973) [extended through January 2010].

Co-Principal investigator (with Jonathan Farley) on NSF grant DMS–9596043 (1999–2002, \$163,700).

Co-Principal Investigator for an NSF grant to support the International Conference on Modern Algebra and its Applications, Vanderbilt University (1996).

Co-Principal Investigator for an NSF grant to support the Conference on Universal Algebra and Category Theory, MSRI, Berkeley (1993).

Principal Investigator for an NSF grant to support the Alan Day Conference (1992).

Faculty Associate for an NSF grant to support the Jónsson Symposium (1990).

Co-Principal Investigator (with William Craig) for an NSF grant (1968–2970?)

Faculty Associate on various NSF grants (Principal Investigator: Alfred Tarski) from 1967 to 1980.

### Invited Talks:

2017 Presented a mathematics colloquium lecture at Iowa State University, Ames on October 13.

2017 Attended the AMS Regional Conference at Charleston, South Carolina, March 10–12 and gave an invited talk at the special session on Algebras, Lattices, Varieties.

2016 Attended the AAA Conference (Arbeitstagung Allgemeine Algebren) at Charles University, Prague, May 27–30 and gave an invited talk, “Example of an idempotent groupoid satisfying no non-trivial Maltsev condition and having no cube-term blocker”.

2016 Attended the Algebra and Algorithms Conference at University of Colorado (Boulder) May 19–22, and gave an invited one-hour talk, “Where are we now, and where should we be going?”

2016 Attended the SIU Mathematics Conference at South Illinois University, Carbondale, May 16–17 and gave a one-hour invited talk, “Speaking of mathematicians and theorems I have known”.

2015 Gave a two-day workshop on finite universal algebra and CSP, at BLAST 2015, held at North Texas State University at Denton.

2014 Gave one hour talk and participated, in the Workshop on Algebraic Methods in Constraint Satisfaction (November 24–28) at the Banff International Research Station (BIRS).

2014 Attended the annual meeting of the Association of Symbolic in Boulder, Colorado in May.

2013 AMS Louisville meeting, October (plenary talk)

2013 Kangro-100 Conference, Tartu, Estonia, September (plenary talk)

2013 General Algebra and Its Applications, July, LaTrobe University, Melbourne

2013 4th Nowy Sad Algebraic Conference, June

2013 China May 7 – June 2: University of Chongqing, colloquium talk and course of six introductory lectures in universal algebra; Southwestern University of Finance and Economics, Chengdu, colloquium talk

2013 Special Session on Algebras, Lattices, Varieties at the AMS Meeting in Boulder, Colorado, April 13–14

2012 Workshop conference on “The constraint satisfaction problem: complexity and approximability” at Dagstuhl (Germany) (September)

2012 Conference on Algebra and Lattice Theory, Szeged Hungary (June), title: Malcev families of quasivarieties closed under join or Malcev product

2011 The program on algebraic approach to constraint satisfaction problems at the Fields Institute, University of Toronto (title: Finitely related clones and algebras with cube-terms)

2011 Special session at AMS meeting in Honolulu, March

2011 Algebra Seminar at the University of Szeged, Hungary (title: Finitely related clones and algebras with cube-terms)

2011 “The 2nd International Conference on Order, Algebra, and Logics, in honor of Ralph McKenzie, Hiroakira Ono, and Andrzej Wronski”, held at Jagiellonian University, Krakow (an hour talk titled “The number of Maltsev algebras is countable”)

2011 Talk to the algebra seminar at LaTrobe University, Melbourne, Australia

2010 “Jardafest” International Conference on Algebras and Lattices, Prague, June (title: “Inherently finitely related algebras and sparse relational clones”)

2010 BLAST conference, Boulder, June (title: “Inherently finitely related algebras and sparse relational clones”)

2010 KAM Mathematical Colloquium, March 11, 2010 (distinguished lectures organized 2–3 times a year by the Faculty of Math. and Physics of Charles University, Prague)

2010 Talk at the algebra seminar, Charles University, Prague on March 8, 2010.

2009 Nowy Sad Algebra Conference, August, 2009

2009 Special session at AMS meeting in Urbana, March

2008 Colloquium talk at University of Georgia, Athens (CS Department) October

2008 Mini-conference in algebra and algorithms at Sam Houston State University, April 18 (one of two invited speakers)

2008 Participated and gave talk at the Workshop on the Algebraic Approach to Constraint Satisfaction Problems at AIM, March 31 - April 4

2007 Conference on Algorithmic Complexity and Universal Algebra, Szeged, Hungary, July

2007 Opening talk at the Shanks workshop conference on The Algebraic Approach to Constraint Satisfaction Problems, Vanderbilt, June

2007 Special session at the winter meeting of the AMS in New Orleans, January

2006 Mathematics Colloquium at University of Colorado, October

2006 Grätzer-Schmidt Conference, Erdős Center, Budapest, June

2006 Special session at the winter meeting of the AMS in San Antonio, January

2005 Midsummer Combinatorial Workshop Conference, DIMATIA Center, Charles University, Prague, July

2005 Novi Sad Algebraic Conference, Novi Sad, Serbia, July

2005 Conference on Universal Algebra and Lattice Theory, Szeged, Hungary, July  
 2004 Special session at the American Mathematical Society meeting in Nashville, October  
 2004 Walter Taylor Conference in Boulder, August  
 2004 Logic Colloquium 2004 in Torino, Italy, July  
 2003 Special session at the Winter Meeting of the Canadian Mathematical Society in Vancouver, December  
 2003 Special session at the American Mathematical Society meeting in Boulder, October  
 2003 NATO Advanced Study Institute, at the Universite de Montreal, July [a five-lecture workshop]  
 2003 Annual Meeting of the Association for Symbolic Logic at the University of Illinois in Chicago, June [plenary talk]  
 2003 Alfred Tarski Lectures at UC Berkeley (March 31, April 2, April 4)  
 2003 University of Puerto Rico, March  
  
 2002 Universita di Siena, June [seminar lecture]  
 2002 Special session at AMS-UMI First Joint International Meeting, Pisa, June  
 2002 Mycielski Conference, Boulder, May  
 2002 International Conference on Modern Algebra, Vanderbilt, May  
 2001 Oxford University, Mathematical Institute, October [two invited lectures]  
 2001 Czech-Slovak Summer School, September [three plenary lectures]  
 2001 Tame Congruence Workshop Conference, Erdős Center, Budapest, first two weeks of July 2001 [chairman of the conference, presented six lectures]  
 2001 University of Novi Sad, June [Colloquium]  
 2001 Charles University, Prague, June [Colloquium]  
 2001 University of Wroclaw, June [Colloquium]  
 2001 Tarski Centenary Conference, Warsaw, May [plenary talk]  
 2001 AMS Meeting at Columbia, South Carolina, March  
 1999 Fried Conference, Budapest, August  
 1999 University of Wroclaw, July [Colloquium]  
 1998 Universal Algebra and Lattice Theory Conference, Szeged, Hungary, August  
 1998 University of Wroclaw, June [Colloquium]  
 1998 University of Dresden, June [Colloquium]  
 1998 University of Potsdam, June [Colloquium]  
 1998 AMS Meeting at Louisville, March [special session]  
 1997 International Congress in Algebras and Combinatorics, Hong Kong,  
 1997 Joint Mathematics Meeting, Pretoria, South Africa, June [hour talk at special session]  
 1997 University of Capetown, South Africa, June [Colloquium]  
 1996 International Conference on Modern Algebra and its Applications, Vanderbilt, May [plenary lecture]  
 1995 University of Brisbane [twenty seminar talks]  
 1995 University of Hawaii [Colloquium]  
 1994 Magari Conference, Siena, Italy, April [plenary lecture]

1994 Institut d'Estudis Catalans, Centre de Recerca Matemática, Barcelona, May [five lectures]  
 1994 University of Nebraska [Colloquium]  
 1994 UC Berkeley [Logic Colloquium]  
 1993 Vanderbilt University, December [Colloquium]  
 1993 Universal Algebras and Categories, MSRI, July [co-chair of the two-week workshop, presented one hour lecture]  
 1993 Evelyn Nelson Lecture, McMaster University, Ontario, March  
 1993 Pontifica Universidad Catolica de Santiago, Chile, February [six seminar talks]

1992 UC Berkeley [Colloquium]  
 1992 Alan Day Conference, McMaster University, Ontario  
 1990 University of Colorado [Colloquium]  
 1990 Summer Meeting of Canadian Math. Society, Halifax [plenary lecture]  
 1990 Jónsson Symposium, Iceland [plenary lecture]  
 1989 Victoria University, Wellington NZ [Colloquium]  
 1989 University of Canterbury, Christchurch NZ [Colloquium]  
 1989 Third International Conference on the Theory of Groups and Related Topics, Canberra [plenary lecture]  
 1989 Maltsev Conference, Novosibirsk [plenary lecture]  
 1989 Royal Melbourne Inst. Tech. [Colloquium]  
 1989 Victoria Algebra Conference, Melbourne  
 1989 Waterloo University [Colloquium]  
 1988 University of Manitoba [seminar talk]  
 1988 Technische Hochschule Darmstadt [seminar talks]  
 1988 Math. Inst. Hungarian Acad. Sci, Budapest [several seminar talks]  
 1988 International Conference on Algebra, Lisbon, Portugal  
 1987 UC Berkeley [Logic Colloquium]  
 1987 Conference on Algebra, Lattices, Logic, Asilomar  
 1987 Harvey Mudd College, Claremont [Colloquium]  
 1987 UC Riverside [Colloquium]  
 1987 University of South Carolina [Colloquium and seminar talks]  
 1987 The Citadel, Charleston  
 1987 17th International Conference on Multiple-Valued Logic, Boston  
 1987 University of Massachusetts, Amherst [Colloquium]  
 1987 Second Molokai Conference, Hawaii  
 1986 Fine Structure Conference, Berkeley [fourteen lectures]  
 1986 Chico State University [Colloquium]  
 1986 Simon Fraser University, Vancouver [Colloquium and seminar talks]  
 1985 UC Berkeley [Logic Colloquium]  
 1985 University of Calgary [seminar talk]  
 1985 Iowa State University, Ames [Colloquium]  
 1984 Conference on UA & LT, at The Citadel, Charleston, SC  
 1984 University of Siena, Italy [three-week course]  
 1984 University of Siena, Italy [four talks at a conference]

1984 First Molokai Conference, Hawaii [two talks]  
 1983 University of Hawaii [fifteen weeks of seminar talks]  
 1983 Workshop on UA & LT, Szeged, Hungary  
 1983 Charles University, Prague [Colloquium]  
 1983 Waterloo University [seminar talks]  
 1983 University of Colorado [seminar talks]  
 1983 Vanderbilt University [one week of seminar talks]

1982 International Conference on UA & LT, Puebla, Mexico [one week of lectures]  
 1982 UC Berkeley [Logic Colloquium]  
 1981 Jónsson Symposium, Vanderbilt University  
 1980 University of Colorado [Colloquium]  
 1980 AMS Special Session on UA & LT at University of Colorado  
 1980 UC Berkeley [Logic Colloquium]  
 1979 University of Hawaii [Colloquium and seminar talks]  
 1978 Conference on Universal Algebra, Claremont  
 1978 E.T.H., Zürich  
 1978 Math. Inst. Hungarian Acad. Sci., Budapest  
 1978 East-West Conference on Universal Algebra, Klagenfurt  
 1978 Freie University, Berlin  
 1978 University of Freiburg  
 1978 University of Kassel  
 1978 Technische Hochschule Darmstadt  
 1978 Semester on Algebra at Banach Center, Warsaw [six lectures]  
 1977 Vanderbilt University [seminar talks]  
 1975 University of Calgary [Colloquium]  
 1975 AMS Special Session on Game Theory, Washington, DC  
 1975 UCLA [Logic Colloquium]  
 1974 University of Washington [Colloquium]  
 1973 UCLA [Logic Colloquium]  
 1973 AMS Special Session on Lattice Theory, Houston  
 1973 Erdős Symposium, Hungary

1972 SUNY at Buffalo  
 1972 Waterloo University [Colloquium and seminar talks]  
 1972 University of Manitoba [Colloquium]  
 1971 Tarski Symposium, Berkeley  
 1971 McMaster University, Ontario [Colloquium]  
 1969 AMS Summer Regional Conference at Pennsylvania State U.  
 1969 Vanderbilt University [Colloquium]  
 1969 UC Berkeley [Logic Colloquium]  
 1968 Oberwolfach Conference  
 1967 UC Berkeley [Logic Colloquium]

## **Doctoral Students:**

### **UC Berkeley:**

Ralph Louis Seifert, 1968  
Alan Loeb Kostinsky, 1969  
Richard J. Laver, 1969  
Richard Thompson, 1978  
John Thomas Allen, 1979  
Constantine Tsinakis, 1979  
Clifford Harris Bergman, 1981  
Michael Kwatinetz, 1981  
Stephen Thomas Tschantz, 1983  
David Charles Hobby, 1983  
Alan Spector Stern, 1984  
Kan Ching (Judith) Ng, 1984  
Jacob Shapiro, 1985  
Matthew Anthony Valeriote, 1986  
Peter B. Ladkin, 1987  
Keith Alan Kearnes, 1988  
Joohee Jeong, 1991  
Simone Hazan, 1992  
Charles Latting, 1995  
Andrew Ensor, 1996  
Japheth Wood, 1997

### **Vanderbilt:**

John Snow, 1998  
Miklos Maroti, 2002  
Petar Markovic, 2003  
Marcin Kozik, 2004  
Alexander Wires, 2012  
Matthew Smedberg, 2014