## VITA

## Sheldon W. Davis

## Contact

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## Education

Ph. D. Ohio University, December, 1976 [Mathematics]
Dissertation: "A Study of Certain Classes of Isocompact Spaces and of the
Relationships Among Them"
Major Professor: Howard H. Wicke
M. S. Ohio University, June, 1973 [Mathematics]
B. S. Ohio University, June, 1973 [Cutler Program]

Cutler Fellow: Ellery P. Golos

## Employment History

Auburn University: Instructor, January, 1977 to June, 1978

Miami University: Assistant Professor, 1978-1981
Associate Professor, 1981-1986
Professor, 1986-2008
Professor Emeritus, 2008-present

Director of Graduate Studies in the Department of Mathematics and Statistics,
July, 1987-December, 1990, and July, 1995-July, 1999
Acting Associate Dean of the Graduate School, January, 1991-August, 1992
University of Texas at Tyler: Professor, 2008 - present
Chair of Mathematics Department, 2008 - present.

## Scholarly Activities

Book

- Topology, McGraw-Hill, Boston, 2005
- Images of the Countable Ordinals, Topology and Its Applications 221(2017), 610-623 (with R. Bennett and D. J. Lutzer)
- Spaces with a $\sigma$-weakly Hereditarily Closure Preserving Base, Topology Proceedings 35(2010), 9-18 (with D. K. Burke)
- Covering Properties of Symmetrizable Spaces, Comptes rendus de l'Academie Bulgare des Sciences 62(2009), 923-928 (with Dimitrina Stavrova)
-Strongly Almost Disjoint Sets and Weakly Uniform Bases, Transactions of the American Mathematical Society 352(2000), 4971-4987 (with Z. Balogh, W. Just, S. Shelah, and P. Szeptycki)
-S-point Finite Refinable Spaces, International Journal of Mathematics and Mathematical Sciences 22(1999), 367-375 (with E. Grabner and G. Grabner)
- New Classic Problems, Topology Proceedings 15(1990), 201-220 (with Z. Balogh, A. Dow, G. Gruenhage, P. J. Nyikos, M. E. Rudin, F. D. Tall, and S. Watson)
-A ZFC Nonseparable Lindelof Symmetrizable Hausdorff Space, Comptes rendus de l'Academie Bulgare des Sciences 42(1989), 11-12 (with Z. T. Balogh and D. K. Burke)
-A Property Related to the Strict p-space Problem, Topology Proceedings 12(1987), 59-74 (with K. P. Hart)
- The wa-space Problem, Topology and Its Applications 30(1988), 175-181 (with K Alster and D. K. Burke)
- The Strict p-space Problem, Topology Proceedings 10(1985), 277-292
- More on Cauchy Conditions, Topology Proceedings 9(1984), 31-36
- On a Theorem of Peregudov, Topology Proceedings 8(1983), 237-240 (with D. K. Burke)
- Subsets of ${ }^{\omega} \omega$ and Generalized Metric Spaces, Pacific Journal of Mathematics 110(1984), 273-281 (with D. K. Burke)
- Questions on Symmetrizable Spaces, Questions and Answers in General Topology 1(1983), 113-118 (with D. K. Burke)
- Cauchy Conditions on Symmetrics, Proceedings of the American Mathematical Society 86(1982), 349-352
- Compactifications of Symmetrizable Spaces, Proceedings of the American Mathematical Society 81(1981), 647-651 (with D. K. Burke)
- Separability in Nearly Compact Symmetrizable Spaces, Topology Proceedings 5(1980), 59-69 (with D. K. Burke)
- The Paracompactness of Preparacompact Spaces, Topology Proceedings 4(1979), 345-360 (with J. C. Smith)
- A Non-developable Cech-complete Space with a Point-countable Base, Proceedings of the American Mathematical Society 78(1980), 139-142
- A Cushioning-type Weak Covering Property, Pacific Journal of Mathematics 80(1979), 359-370
- Separability and Minimal Weak Base Topologies, Proceedings of the American Mathematical Society 74(1979), 371-378 (with R. M. Stephenson, Jr.)
- Spaces with Linearly Ordered Local Bases, Topology Proceedings 3(1978), 37-51
- $G_{\delta}$-sets in Symmetrizable and Related Spaces, General Topology and Its Applications 9(1978), 253261 (with G. Gruenhage and P. J. Nyikos)
- On Fr-spaces, General Topology and Its Applications 9(1978), 131-138
- Cardinal Functions for $k$-spaces, Proceedings of the American Mathematical Society 68(1978), 355358 (with J. R. Boone and G. Gruenhage)
- On Certain Isocompact Spaces, Topology Proceedings 1(1976), 33-45
- Further Results on Weakly Uniform Bases, Houston Journal of Mathematics 2(1976), 57-63 (with G. M. Reed and M. L. Wage)


## Other Research Activities

-Chair of the Steering Committee for the Spring Topology and Dynamical Systems Conference, 20142017.
-Member of the Steering Committee for the Spring Topology and Dynamical Systems Conference, 2011-2017.
-Chair of the $45^{\text {th }}$ Annual Spring Topology and Dynamical Systems Conference, 2011. (NSF funded) -Chair of the Organizing Committee for the Set-theoretic Topology session at the Spring Topology and Dynamical Systems Conference, 2005.
-guest editor for Topology Proceedings, 2001.
-Three circulated, but unsubmitted, manuscripts:
A Strong Separation Property, 2008 (with D. K. Burke)
Partial Results on Strict p-spaces, 1979
Paralindelof Pseudocompact Spaces, 1980 (with D. K. Burke)
-Principal Investigator or Co-Principal Investigator on 5 proposals to the National Science
Foundation. One funded (1992-93).
-Recipient of Miami University Faculty Research Committee Summer Research Grant, 1980.
-Invited Colloquium Talks at Auburn University, Ohio University, Cleveland State University, University of Dayton, Miami University, and Wittenberg University
-Thirty-nine talks at various professional meetings
-Reviewer for Mathematical Reviews and Zentralblatt fur Mathematik
-Referee of fifty papers for various professional journals

## Teaching and Student Activities

-Taught 4 courses per year in the Department of Mathematics at University of Texas at Tyler, 2008 present.
-Taught 5-6 courses per year in the Department of Mathematics and Statistics at Miami University, including 26 different course numbers, 1978 - 2008.
-Designed the first year honors calculus courses MTH 249.H and MTH 252.H
-College of Arts and Science Admission Open House Programs, 1999-2007
-Football Red Carpet Day, 1999
-Team Leader for the Math 151 Teaching Team, consisting of 3 to 6 young faculty and myself, Fall, 1999, 2000, 2001, 2002, 2006
-Directed one Master of Arts Thesis (Elizabeth Warwick Stratton, Inductively Defined Topologies, 1987)
-Worked Summer Orientation Advising for incoming undergraduates, 1996-2007
-Served as Academic Advisor to numerous undergraduate and graduate mathematics and statistics majors
-Served as Faculty Associate (a.k.a. "Dorm Daddy") for Emerson Hall, 1979-1980 and 1990-1991
-Advisor to Miami Circle K club, 1990-1997
-Advisor to Miami University Graduate Student Association, 1990-1992

- Speaker for Pi Mu Epsilon (mathematics honorary) seven times
-Speaker for Math 190, Freshman Seminar in Mathematics, 1995, 1996, 2000, 2001, 2002, 2004, 2005, 2006, 2007
$\bullet$ Worked calculus help sessions $\geq 2$ nights per term, 1978-1990, 1992-2007
-Attended Tutoring Forum conducted by Office of Learning Assistance, 1987, 1988, 1989, 1993
-Conducted calculus help sessions in Morris Residence Hall at request of Senior Resident Assistant, 2003
-Academic advisor for class of 2004
-Academic advisor for all Master of Arts students in Math-Stat, 2004-2008


## Service Activities (prior to Chair of Mathematics Department at UT Tyler)

Committees Chaired
University: •Executive Committee of University Senate, 2006-2007
-University Appeals Board, 2003-2007
-Student Petitions Committee of Graduate Council, 1990-1995 and 1999-2002

- Natural and Applied Science Area Subcommittee of the Graduate Council, 1989-

1990 and 2002-2003

- Search Committee for Director of University Honors Program, 2001-2002
-Ad Hoc Committee on Enrollment Management of the Graduate Council, 1989
- Ohio Board of Regents On-Campus Review Committee for the Department of Mathematics and Statistics, 1985-86
-Program Review Team for the Department of Geography, Fall, 1993
-Program Review Team for the Department of Chemistry, Fall, 1994
-Athletic Policy Committee, 2000-2002

| College: | -College of Arts and Science Governance Committee, 1989-1990 5 |
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| Department: | -Mathematics Search Committee, 2002-2003 |
|  | -Area Coordinator for Analysis, Logic, and Topology, 1999-2001 |
|  | $\bullet$-Calculus Teaching Team, 1999-2002, 2006 |
|  | -Student Grievance Committee (two cases), 1998-1999 |
|  | $\bullet$-Graduate Committee, 1987-1990 and 1995-1999 |
|  | $\bullet$-Governance Committee, 1986-1987, 1992-1993 |
|  | -Awards Committee, 1985-1986 |
|  | -Professors Committee, 1986-1987 and 1993-1994 |
|  | $\bullet$-Professors and Associate Professors Committee, 1981-1982 |
|  | -Tenure Committee, 1993-1995 |
|  | $\bullet$-Honors and Independent Study Committee, 1980-1982 |
|  | -Drafting Committee for Professors review of Stephen Wright, 2003 |
|  | -Master's Thesis Committee-two times |
|  | -Master's Final Oral Committee-seventeen times |
| State of Ohio: | Committees Served |
|  | - Ohio Board of Regents Transfer and Articulation Committee, 2004-2006 -OBOR Math and Science TAG Subcommittee, 2004-2006 |
|  | -OBOR High School to College Articulation Committee, 2004-2008 |
| University: | -University Senate, 1990-1991 and 1996-2008 |
|  | -Executive Committee of University Senate, 2005-2007 |
|  | -Ad Hoc Committee on Honors College and Interdisciplinary Studies Program, |
| 2006 |  |
|  | -Ad Hoc Committee to plan inauguration of Miami University President David |
| Hodge, | 2006 |
|  | -Graduate Council, 1987-1990 and 1992-2004 |
|  | -University Appeals Board, 1998-2008 |
|  | -Committee on Undergraduate Research, 2003-2007 |
|  | -Committee on Campus Planning, 2004-2005 |
|  | -Committee on Exterior Art, 2004-2007 |
|  | -Athletic Policy Committee, 1999-2002 |
|  | -Faculty Mediation Committee, 2004-2005 |
|  | -Academic Integrity Committee of the NCAA Accreditation Steering Committee, 1999-2001 |
|  | -Committee on Undergraduate Courses and Curriculum of University Senate, 1996-1998 |
|  | -University Assessment Council, 1992-1997 |
|  | -Committee to Review the Dean of the Graduate School, 1997-1998 |
|  | $\bullet$-Academic Program Review Committee, 1993-1995 |
|  | -Writing Team for Goodlad proposal for Institute for Educational Renewal, 1994 |
|  | $\bullet$-Faculty Research Committee, 1984-1988 |
|  | -Natural and Applied Science Area Subcommittee of the Graduate Council, 1984- |
| 1986 |  |
|  | -Ad Hoc Committee on Promotion and Tenure Policy of the University Council, |

1985-1986
-Program Review Team for the Department of Psychology, Fall, 1992
College: •Academic Planning Committee, 1996-1998
-Governance Committee, 1988-1990
Department: •Governance Committee, 1983-1984, 1985-1990, 1992-1995, and 1997-2002
-Graduate Committee, 1979-1983, 1984-1990, and 1993-1999, 2002-2005
-Student Grievance Committee, 1998-1999
-Teaching Evaluation Committee, 1997-1998
-Peer Review of Teaching, 2001, 2002, 2006
-Program Review Self-study Committee, 1995-1996
-Undergraduate Committee, 1980-1986 and 1992-1993
-Honors and Independent Study Committee, 1978-1982
-Calculus Committee, 1978-1980
-Hiring Committee, 1981, 1983, 1986, 1987, 1990, 2003
-Awards Committee, 1985-1987
-Analysis Comprehensive Examination Committee, 1983-1989, and 1999-2002
-Topology Comprehensive Examination Committee, 1979-1991 and 1992-2008
-Master's Final Oral Committee-36 times
-Assessment Coordinator, 1992-1993
-Accreditation Self-Study Committee, 1993

## Activities as Associate Dean of the Graduate School

Primary Responsibilities: Academic Affairs and Student Affairs

-Act as Dean of the Graduate School and Research (in the absence of the Dean)
-Represent Miami University at the Ohio Board of Regents Advisory Council on Graduate Study (in the absence of the dean)
-Represent Miami University at the Midwestern Association of Graduate Schools (accompanying the Dean)

- Supervise the professional staff of the Graduate School
-Serve as Secretary to Graduate Council
-Set and prepare Agenda for Graduate Council
- Act as Chair of Graduate Council (in the absence of the Dean)
-Coordinate activities and reports of the three area subcommittees of Graduate Council
-Chair the following committees:
-Student Petitions Committee
-Committee on Assessment of Written English
-Student Financial Aid Committee
-Graduate Students' Achievement Fund Committee
-Academic Integrity Committee
-Miami University Selection Committee for Midwestern Association of Graduate Schools Distinguished Thesis Award
-Miami University Selection Committee for Ohio Board of Regents' Graduate/Professional School Fellowship
-Represent the Graduate School on the following committees:
-Advisory Committee on Continuing Education
-Review and approve Graduate Faculty Level B appointments
-Review and approve appointments of thesis and dissertation committees
-Review and approve minor curriculum changes
-Review and approve proposals for one-time graduate course offerings
-Review and approve final oral examination results
-Make arrangements for SPEAK test for international students
-Make arrangements for written English test for international students
-Present Graduate School Orientation Program for incoming students
-Present annual program on Graduate School selection and applications for the Career
Planning and Placement Office
-Revise and update Graduate Edition of The Miami Bulletin
-Write the annual Report of the Graduate School
-Handle all complaints and difficulties associated with academic affairs and student affairs


## Honors and Awards

-Provost's Excellence in Teaching Award, University of Texas at Tyler, 2016.
-Ohio University College of Arts and Science Alumni Significant Achievement Award, 1992
-Nominated for MU Alumni Association Effective Educator Award, 2000

- Nominated for Outstanding Teacher Award by the Miami University graduating class of 1987, by the class of 1994, and by the class of 1996
-Received "Crystal Apple Award" from Talawanda City School District, 2003
-"Who's Who Among America's Teachers," 1998, 2002, 2003 (nominated by calculus students)
-Panhellenic Association and Interfraternity Council "Outstanding Faculty Reception," 2001
-Phi Kappa Tau fraternity "Favorite Professors Tea," 2001 and 2003
-Alpha Xi Delta sorority "Favorite Professor Thank You," 2000
-Alpha Omicron Pi sorority Faculty of the Month, March, 1999
-Alpha Epsilon Phi sorority "Thank you for your dedication to the students of Miami University", 1995
-Phi Kappa Psi fraternity Favorite Professor Reception, 1995
-Favorite Professor Lunch for graduating CAS students, 1992 and 1998


## Professional Memberships

-Texas Association of Academic Administrators in the Mathematical Sciences
-President 2013-2014.
-American Mathematical Society
-Mathematical Association of America
-Miami University Campus Representative to Ohio Section of MAA, 1988-1990, 1992-1994.

