

Curriculum Vitæ

for

Helmut Knaust

Associate Professor

Department of Mathematical Sciences

The University of Texas at El Paso

<http://www.math.utep.edu/Faculty/helmut/cv/cv.pdf>

1 Education

1983–1989 The University of Texas at Austin. Studies in Mathematics.

Degree: Ph.D., Mathematics, Spring 1989. Advisor: Haskell P. Rosenthal.

1977–1983 Rheinische Friedrich-Wilhelms Universität, Bonn, Germany. Studies in Mathematics, Economics and Educational Sciences.

Degree: Diplom-Mathematiker, Spring 1983.

1974–1977 Universität Bielefeld, Germany. Studies in Mathematics and Economics.

2 Academic Appointments

1997–present Associate Professor at The University of Texas at El Paso.

1991–1997 Assistant Professor at The University of Texas at El Paso.

1989–1991 Visiting Assistant Professor at Oklahoma State University, Stillwater OK.

1983–1989 Teaching Assistant, Assistant Instructor and Research Assistant at The University of Texas at Austin.

3 Administrative Appointments

2003–2008 Chair, Department of Mathematical Sciences, The University of Texas at El Paso.

2001–2003 Associate Dean, Colleges of Science and Engineering, The University of Texas at El Paso.

2001–2003 Director of *CircLES*, the Entering Students Program for Science, Engineering and Mathematics, The University of Texas at El Paso.

4 Honors

2004–2005 UTEP AWARE, Class XIV.

2004 *Jack R. Bristol Teaching Award*, College of Science, The University of Texas at El Paso.

2003 *Project Kaleidoscope Faculty 21*, Class of 2003.

1975–1980 *Studienstiftung des Deutschen Volkes*, Scholarship.

5 Professional Societies

2004–present *Greater El Paso Council of Teachers of Mathematics*, Member.

1997–present *Mathematical Association of America*, Member.

1983–present *American Mathematical Society*, Member.

6 Consulting

- 2009** Universidad del Bío-Bío, Concepción, Chile. Consulting visit. (With B. Flores and S. Rodriguez.)
- 2009** Department of Mathematics and Statistics, Texas A&M University - Corpus Christi. External Evaluator.
- 2008** Universidad Católica de Temuco, Temuco, Chile. Consulting visit. (With B. Flores.)
- 2006** *A Model Institution for Excellence* Dissemination Workshop: Pathways to Success in STEM Education, The University of Texas at El Paso. Facilitator.
- 2005** Faculty Development Workshop, School of Science and Technology, Norfolk State University, Norfolk VA. (With B. Flores and J. Ramos.)
- 1994–2005** Several book and software reviews for *Harcourt, Brace & Co.*, *McGraw-Hill* and *John Wiley & Sons, Inc.*

7 Teaching Experience

A. Graduate Courses in Mathematics

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|--|--|
| 1–2 Applied Mathematics [Discrete Wavelets and Applications, Theory of Ordinary Differential Equations] | 5 Technology in the Mathematics Classroom |
| 3 Principles of Analysis | 6 Logic and Proof |
| 4 Real Variables | 7 Calculus and Analysis |
| | 8 Number Theory and Algebra |
| | 9 Graduate Seminar [Numbers] |

B. Undergraduate Courses in Mathematics

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|---|---|
| 10 Precalculus | 21 Introduction to Higher Mathematics |
| 11–12 Mathematics for Social Sciences I–II | 22 Principles of Mathematics |
| 13–15 Calculus I–III | 23 Introduction to Analysis |
| 16 Linear Algebra and Differential Equations | 24 Fundamental Mathematics from an Advanced Standpoint |
| 17 Differential Equations | 25 Real Analysis |
| 18 Matrix Algebra | |
| 19–20 Applied Analysis I–II | |

C. Other Undergraduate Courses

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|---|---|
| 26 Freshmen Seminar [Scientific Revolutions] | 28 Science Seminar (Coordinator) |
| 27 Introduction to Science and Engineering | |

8 Service

A. University Service

- 2006–2007** “UTEP Math Summit”, Member.
- 2006** Hiring Committee, Research Associate for the College Readiness Program, Member.
- 2005** Hiring Committee, Director of Assessment and Testing, Member.
- 2005–2008** University College Curriculum Committee, Member.
- 2002–2003, 2005–2008** Developmental Education Committee, Member.

2004–2005 *Teachers for a New Era* Core Curriculum/Learning Communities Group, Member.
2004–2005 UTEP Centennial Task Force for Student Success, Member;
 “Leavers” sub-committee, Member.
2004–2008 Entering Students Program Advisory Committee, Member.
2004–2008 *Border Biomedical Research Center*, Institutional Advisory Board, Internal Member.
2004 Core Curriculum Committee, Member.
2004 *Texas Success Initiative* Task Force, Member.
2002–2004 Learning Communities Advisory Committee, Member.
2001–2003 University Calendar Committee, Member.
2001–2003 University 1301 Steering Committee, Member; Evaluation sub-committee, Member; Proposal Review sub-committee, Member.
1996–1998 Faculty Senate, Member.
1996–1998 *A Model Institution for Excellence* Curriculum Steering Committee, Member; Mathematics Curriculum sub-committee, Member.
1995 *A Model Institution for Excellence* Freshmen Seminar Planning Committee, Member.

B. College Service

2003–2007 CircLES Liaison.
2002–2003 CircLES Advisory Committee, Chairman.
2000 Tenure and Promotion Committee, Member.

C. Departmental Service

2009–present Student Competitions Committee, Member.
2008–present Program Assessment Committee, Co-chair.
2008–present *Peer-Led Team Learning (PLTL)* Coordinator for the Precalculus course.
2008–present Graduate Advisor for non-cohort MAT students.
2004–present Undergraduate Advisor, 2004/05 cohort.
2004–2005 Strategic Planning Committee, Chair.
2003–2008 Department Chair.
2000–2001 Hiring Committee, Chairman.
1998–2000 Graduate Advisor.
1997–2003 Chairman’s Advisory Committee, Member.
1996–1997 *NASA MU-SPIN* Web Project, Department Faculty Liaison.
1995–1998 Graduate Recruiting Committee, Chairman.
1995–1998, 2000–2002 Teaching Effectiveness Committee, Member.
1994 Departmental Self-Assessment Committee, Member.
1993–1995 Undergraduate Advisor.
1992–1996 Mathematics Colloquium Coordinator.
1992–1996 Mathematics Research Seminar Coordinator.
1992–1995 Graduate Recruiting Committee, Member.
1991–1995, 2000–2003 Undergraduate Curriculum Committee, Member.

D. Student Service

- 2008–present** Graduate Advisor for non-cohort MAT students.
2007 Ph.D. Thesis Committee Member for Hector Ochoa (Computer Engineering).
2004–present Undergraduate Advisor, 2004/05 cohort.
2003 *Master of Arts in Teaching* Thesis Committee Member for one student.
2001–2003 Director of *CircLES*, the Entering Students Program for Science, Engineering and Mathematics.
1998–2006 *Master of Science* Thesis Committee Member for seven students
1998–2000 Graduate Advisor.
1995–2001 Supervised numerous individual studies courses in Advanced and Functional Analysis.
1994, 1998 *Master of Arts in Teaching* Committee Member for two students.
1993–1995 Undergraduate Advisor.
1993–2005 Administered 13 Master’s Examinations to 20 students.

E. Professional Service

- 2004–2007** Referee for the *Journal of Applied Analysis*.
2003–2006 Referee for the *International Journal of Mathematics and Mathematical Sciences*.
1991–1997 Referee for the *Proceedings of the American Mathematical Society*.

F. Other

- 2006–2008** *El Paso T-STEM Center Partners’ Leadership Group*, Member.
2006 *El Paso Mathematics Summit*. Planning Committee, Member.
2005 *Teachers for a New Era*. Author of 52 practice exam questions for TExES Exam 115.
2004–2005 *El Paso Collaborative for Academic Excellence*, K–16 Mathematics Alignment Working Group, Member.

9 Professional Activities

A. Research-related Activities

Talks:

- 1998** The University of Texas at El Paso, Research Seminar. “*Lambda-Hyperconvexity in Metric Spaces.*”
1994 New Mexico State University, Las Cruces, Colloquium. “*Infinite Ramsey theory and its applications in Banach space theory.*”
1994 The University of Missouri at Columbia, Conference: The Interaction Between Functional Analysis, Harmonic Analysis and Probability. “*The Ramsey property in angelic spaces.*”
1993 The University of Texas at El Paso, Research Seminar. “*Angelic spaces with the Ramsey property.*”
1992 The University of Texas at El Paso, Research Seminar. “*Array convergence in angelic spaces.*”
1991 The University of Texas at El Paso, Research Seminar. “*The unconditional basic sequence problem à la Gowers.*”
1991 The University of Texas at El Paso, Colloquium. “*Applications of Ramsey theory to Banach space geometry.*”
1989 The University of Missouri at Columbia, Colloquium. “*Uniform structures in infinite-dimensional Banach space theory.*”

Workshop Participation:

- 1996** *Special Concentration Week on “Infinite Dimensional Convex Geometry”*. Mathematical Sciences Research Institute, Berkeley CA.
- 1992** *International Research Workshop on Banach Space Theory*. Universidad de los Andes, Mérida, Venezuela.
- 1988** *Microprogram on the Structure of Banach spaces*. Mathematical Sciences Research Institute, Berkeley CA.

Conference Participation:

- 2009** *Joint Meeting of the American Mathematical Society-Mathematical Association of America*. Washington DC.
- 2006** *Joint Meeting of the American Mathematical Society-Mathematical Association of America*. San Antonio TX.
- 1997** *Joint Meeting of the American Mathematical Society-Mathematical Association of America*. San Diego CA.
- 1995** *Joint Meeting of the American Mathematical Society-Mathematical Association of America*. San Francisco CA.
- 1994** *The Interaction between Functional Analysis, Harmonic Analysis and Probability*. University of Missouri, Columbia MO.
- 1990** *Regional Conference of the American Mathematical Society*. University of North Texas, Denton TX.
- 1988** *Banach Spaces and the Geometry of Convex Bodies*. University of Alberta, Banff, Canada.
- 1985** *Conference on Banach Spaces and Classical Analysis*. Kent State University, Kent OH.

B. Teaching-related Activities

Talks:

- 2009** *MathFest of the Mathematical Association of America*, Portland OR. Contributed Talk, Session on the Effective Use of Dynamic Mathematical Software in the Classroom. “*Exploring Machin’s Approximation of π* ”.
- 2009** “*Wavelets and Applications: A Multi-Disciplinary Undergraduate Course with an Emphasis on Scientific Computing*”, University of South Florida, Tampa FL. Invited Presenter. “*Student Projects in a Discrete Wavelets Transform Course*”.
- 2009** *Joint Meeting of the American Mathematical Society-Mathematical Association of America*, Washington DC. Invited Talk, MAA Session on Wavelets for Undergraduates. “*Zooming in on a Transformed Image: a Project for Students*”. (With C. Haddad and D. Haile.)
- 2008** Fall Conference of the Greater El Paso Council of Teachers of Mathematics, El Paso TX. Invited Talk. “*Math in the News: Perfect Numbers and Mersenne Primes*”.
- 2007** Fall Conference of the Greater El Paso Council of Teachers of Mathematics, El Paso TX. Invited Talk. “*S.O.S. Mathematics and Some Other Math Help Sites on the Internet*”.
- 2005** Teaching and Learning Seminar, The University of Texas at El Paso. “*The Moore Method*.”
- 2004** SUN Conference on Teaching and Learning, The University of Texas at El Paso, Invited Talk. “*Mathematics as an Experimental Laboratory Science*”. (With A. Duval.)
- 2003** Meeting of the Southwestern Section of the Mathematical Association of America, New Mexico Institute of Mining and Technology, Socorro, Invited Talk. “*That Student Is Taught the Best Who Is Told the Least*.”

- 2003** International Network of Education Technology Conference 2003, The University of Texas at El Paso, Invited Talk. “*Teaching Algebra with Spreadsheets*”.
- 2002** Conference for the Advancement of Science Teaching 2002, The University of Texas at El Paso, Invited Talk. “*S.O.S Mathematics: Helping Math Students On the Internet*”. (With M.A. Khamsi and N. Marcus.)
- 2002** Fifteenth International Conference on Technology in Collegiate Mathematics, Orlando FL, Invited Talk. “*S.O.S Mathematics—Helping Math Students Through the Internet*”. (With M.A. Khamsi and N. Marcus.)
- 2002** SUN Conference on Teaching and Learning, The University of Texas at El Paso, Invited Talk. “*The Moore Method—A Tradition of Active Student Learning in Mathematics*”. (With A. Duval.)
- 2002** International Network of Education Technology Conference 2002, The University of Texas at El Paso, Invited Talk. “*S.O.S Mathematics—A Mathematics Help Site on the Internet*”. (With N. Marcus.)
- 1999** The University of Texas at El Paso, Talk for Club Zero. “*The Hunt for Mersenne Primes.*”
- 1998** Eleventh International Conference on Technology in Collegiate Mathematics, New Orleans LA, Invited Talk. “*S.O.S. Mathematics—Students Review Mathematical Concepts on the Internet*”.
- 1998** The University of Texas at El Paso, Neat Networks Conference, Invited Talk. “*S.O.S. Mathematics.*” (With M.A. Khamsi.)
- 1997** The University of Texas at El Paso, Talk for Club Zero. “*The CORDIC Algorithm.*”
- 1997** The University of Texas at El Paso, Colloquium. “*Differential Equations Reform.*” (With M.A. Khamsi.)
- 1997** Meeting of the Southwestern Section of the Mathematical Association of America, New Mexico State University, Grants, Invited Talk. “*How Do Calculators Calculate?*”
- 1996** Universidad Autónoma de Ciudad Juárez, Student Colloquium for *Proyecto Abel*. “*Combinatorics in Geometry and Analysis.*”
- 1995** The University of Texas at El Paso, Talk for Club Zero. “*An Introduction to Ramsey Theory.*”
- 1995** Universidad Autónoma de Ciudad Juárez, Student Colloquium for *Proyecto Abel*. “*Measure Theory: From Archimedes to Lebesgue.*”

Workshop Participation:

- 2008–2009** *Discrete Wavelets Transform Workshop*, directed by C. Bénéteau, C. Haddad, D. Ruch and P. Van Fleet. Madison WI and Portland OR.
- 2008** “*Inquiry-Based Learning with a Focus on Number Theory: a Transitions-to-Proof Course*”, directed by M. Starbird, E. Odell, D. Marshall and S. Nichols. University of Texas at Austin, Austin TX.
- 2007** “*Wavelets and Applications: A Multi-Disciplinary Undergraduate Course with an Emphasis on Scientific Computing*”, directed by P. Van Fleet. University of St. Thomas, St. Paul MN.
- 2006** Inquiry-Based Learning Workshop, directed by S. Yoshinobu. Costa Mesa CA.
- 1997** Advanced Cooperative Learning Workshop, directed by K. Smith. Cloudcroft NM.
- 1997** Cooperative Learning Workshop, directed by E.J. Holubec. Cloudcroft NM.
- 1996** NSF Faculty Enhancement Workshop “*Teaching Differential Equations Using a Dynamical Systems Perspective*”, directed by P. Blanchard and R. Delaney. Oberlin College, OH.

Other Conference Participation:

- 2008** MathFest of the Mathematical Association of America, Madison WI.
- 2005** Meeting of the Southwestern Section of the Mathematical Association of America, The University of Texas at El Paso.

- 2003–2008** Annual “Legacy of R.L. Moore” Conferences. Austin TX. Invited Participant.
- 2001** Meeting of the Southwestern Section of the Mathematical Association of America. New Mexico State University, Las Cruces.
- 1997** Tenth International Conference on Technology in Collegiate Mathematics. Chicago IL.
- 1996** Ninth International Conference on Technology in Collegiate Mathematics. Reno NE.
- 1995** Meeting of the Southwestern Section of the Mathematical Association of America. The University of Texas at El Paso.

Outreach Activities:

- 1998–present** Co-owner of *Math Medics, LLC*, publisher of “*S.O.S. Mathematics*”. (With M.A. Khamsi and N. Marcus.)
- 1996–present** Co-developer of the Internet site “*S.O.S. Mathematics*”. (With M.A. Khamsi and N. Marcus.)

C. Service-related Activities

Talks:

- 2009** *MathFest of the Mathematical Association of America*, Portland OR. Contributed Talk. “*Cross-Institutional Implementation of Supplemental Instruction*”. (With G. Schwab and E. Schwab.)
- 2009** External Advisory Board meeting (NSF-STEP grant). The University of Texas at El Paso, El Paso TX. “*Peer-Led Team Learning for Precalculus*.”
- 2009** Sun Conference on Teaching and Learning, El Paso TX. Invited Talk. “*Peer-Led Supplemental Instruction for Calculus*.” (With E. Schwab, O. Macedo and M. Pugh.)
- 2009** Annual Conference on The First-Year Experience, Orlando FL, Poster Presentation. “*Modular Delivery and Supplemental Instruction (SI) for the Calculus Course*.” (With E. Schwab, M. Fuentes and O. Macedo.)
- 2009** *Joint Meeting of the American Mathematical Society-Mathematical Association of America*, Washington DC. Invited Talk, MAA Session on Building Diversity in Advanced Mathematics: Models that Work. “*Modular Delivery and Peer-Led Team-Learning for Precalculus*.”. (With E. Schwab.)
- 2007** *Parkland High School*, Ysleta Independent School District, El Paso TX. Presentation. “*Getting Ready To Study Mathematics, Science and Engineering at UTEP*.”
- 2006** Fall Conference of the Greater El Paso Council of Teachers of Mathematics, El Paso TX. Invited Talk. “*Studying Engineering, Mathematics and Science at UTEP*”. (With B. Flores.)
- 2006** The University of Texas at El Paso. *Math 1319 “Mathematics in the Modern World”* Workshop, Presentation.
- 2005** The University of Texas at El Paso. “Student Outcomes in Mathematics”. (With A. Duval.)
- 2004** Annual Conference on The First-Year Experience, Addison TX, Invited Talk. “*Getting Ahead in First-Year Mathematics College Courses*.” (With B. Flores, N. Marcus and D. Ward.)
- 2003** Summer Institute of the National Learning Communities Project, Olympia WA, Invited Talk. “*CircLES: The Entering Students Program in Science and Engineering*”. (With B. Flores, D. Ward and C. Willermet.)
- 2003** Meeting of the Southwestern Section of the Mathematical Association of America, New Mexico Institute of Mining and Technology, Socorro, Invited Talk. “*Placing More Freshmen Into College-level Mathematics Courses*.”
- 2002** Conference for the Advancement of Science Teaching 2002, El Paso TX, Invited Talk. “*CircLES at UTEP*”. (With S. Chopra, E.L. Dahl, O. Luckett, A. Pineda and N. Villa.)

- 2002** Southwest Regional Learning Communities Conference, Tempe AZ, Invited Talk. “*Learning Communities—It’s a Team Effort: Lessons Learned From Five Perspectives.*” (With T. Brady, C.K. Della-Piana, B. Flores, C. Flores, C. Rodriguez and A. Swift.)
- 2002** Twenty-First Annual Conference on The First-Year Experience, Orlando FL, Invited Talk. “*An Academic Model for SEM Student Success in Urban Commuter Institutions.*”. (With C.K. Della-Piana, B. Flores and R. Gómez.)

Workshop Participation:

- 2006** PMET Workshop “*Mathematical Preparation of Elementary Teachers*”, directed by J. Evans and B. Madison. El Paso Community College, El Paso TX.
- 2005** “*Algebra II Scoring Workshop*”, Math and Science Partnership. El Paso TX.
- 2004** “*Workshop on Mentoring and Nurturing Students*”, American Mathematical Society. Tucson AZ.
- 2004** “*Leading the Academic Department: A Workshop for Chairs of Mathematical Sciences Departments*”, Mathematical Association of America. Washington DC.
- 2004** “*Faculty 21 Leadership Institute*”, Project Kaleidoscope. The Baca Campus of the Colorado College, Crestone CO.
- 2003** “*Ensuring the Success of Under-represented Groups in STEM Learning Environments*”, Project Kaleidoscope Assembly. Rowan University, Glassboro NJ.
- 2003** Summer Institute, National Learning Communities Project. Evergreen State College, Olympia WA.

Other Conference Participation:

- 2009** “World Science Forum”. Budapest, Hungary.
- 2009** University of Texas System Louis Stokes Alliance for Minority Participation Student Research Conference. Austin TX.
- 2009** “JAM 2009: Innovation and Leadership through a Diverse STEM Workforce”, National Science Foundation. Washington DC.
- 2009** “STEP PI Grantee Meeting”, National Science Foundation. Arlington VA.
- 2008** “JAM 2008: Enabling STEM Transformation”, National Science Foundation. Washington DC.
- 2008** “MSEIP Preapplication Workshop”, Department of Education, Dallas TX.
- 2008** “STEP PI Grantee Meeting”, National Science Foundation. Arlington VA.
- 2007** University of Texas System Louis Stokes Alliance for Minority Participation Student Research Conference. San Antonio TX.
- 2007** “JAM 2007: Investing in Diversity”, National Science Foundation. Washington DC.
- 2007** “Preparing Mathematics Teachers To Make a Difference: Why Teacher Education Matters”, Policy Forum, The Education Policy Center at Michigan State University. Washington DC.
- 2005** “A Catalyst for Change” Conference, UT System Louis Stokes Alliance for Minority Participation. Dallas TX.
- 2005** “Western Regional CSEMS meeting”, National Science Foundation, Oakland CA.
- 2005** “Math and Science Partnership Learning Network Conference”, National Science Foundation. Washington DC.
- 2004** “Teachers for a New Era Institute: Engagement of the Arts and Sciences”, Carnegie Corporation of New York. Washington DC.
- 2002** Engineering and Computing Education Grantees Conference, National Science Foundation. Washington DC.

Other:

2007 *Tornillo High School*, Tornillo Independent School District, Tornillo TX. Mathematics Competition Judge.

2007 “Math Emporium”, Virginia Polytechnic Institute and State University, Blacksburg VA. Visit. (With S. Aley and C.D. Lujan.)

10 Grants, Fellowships and Awards

A. Active Grants

2009–2011 *National Science Foundation*, Co-PI. “*UT Alliance Bridge to the Doctorate Proposal - Cohort VI.*” (HRD-0929727). With B. Flores (PI). Funded in the amount of \$987,000.

2008–2011 *US Department of Education*, Assistant PD, “*MSEIP: Cross-Institutional Implementation of Supplemental Instruction*” (P120A080007). With P. Mitchell (EPCC), J. Peebles (EPCC), E. Schwab (UTEP) and G. Schwab (PD, EPCC). Funded in the amount of \$599,456.

2008–2010 *National Science Foundation*, Co-PI. “*UT Alliance Bridge to the Doctorate Proposal: Cohort V*” (HRD-0832951). With B. Flores (PI). Funded in the amount of \$987,000.

2007–2012 *National Science Foundation*, Co-PI. “*An Integrative Science Success, Teaching and Retention Program.*” (DUE-0653270). With B. Flores (PI), J. Becvar (Co-PI), J. Lopez (Co-PI), and J. Tinajero (Co-PI). Funded in the amount of \$1,964,912.

2007–2012 *National Science Foundation*, Co-PI. “*UT System LSAMP Phase IV.*” (HRD-0703584). With B. Flores (PI). Funded in the amount of \$4,991,436.

B. Recent Grant Applications

2007 *US Department of Education*, Assistant PD, “*Title V Developmental And Freshmen Mathematics*”. With B. Flores (PD), S. Aley (Associate PD), A. Duval (Assistant PD) and M. Smith (Assistant PD). Funding requested in the amount of \$2,572,096. Not funded.

2006 *National Science Foundation*, PI. “*Scholars for the Scientific Workplace of the 21st Century.*” With E. Hagedorn (Co-PI), J. Hurtado (Co-PI), L. Martinez (Co-PI), and E. Walsh (Co-PI). Funding requested in the amount of \$495,056. Not funded.

C. Previous Grants

2005–2008 *US Department of Education*, Assistant PD, “*MSEIP: Modular Delivery and Supplemental Instruction for the Calculus course taken by all STEM majors*” (P120A050046). With E. Schwab (PD) and N. Marcus (Associate PD), funded in the amount of \$299,783.

2005–2008 *National Science Foundation*, Co-PI. “*The University of Texas System Louis Stokes Alliance for Minority Participation.*” (HRD-0217691). With B. Flores (PI) and P. Arenaz (Co-PI), funded in the amount of \$5,393,432.

2005–2007 *National Science Foundation*, Co-PI. “*Sustainability of best practices for minority STEM student retention and success.*” (EEC-0342041). With B. Flores (PI), Th. Brady (Co-PI) and R. Osegueda (Co-PI), funded in the amount of \$2,500,000.

2003–2007 *National Science Foundation*, Co-PI. “*Scholars for the Technical Workforce of the Future Program.*” (DUE-0324209). With R. Gutierrez (PI) and R. Osegueda (Co-PI), funded in the amount of \$400,000.

2004–2005 *Educational Advancement Foundation*, Mini-grant. “*Course development for the Introductory Analysis course.*” Funded in the amount of \$2,000.

- 2000** *Challenge 98*, The University of Texas at El Paso. “*Use of Technology in Calculus II.*” Funded in the amount of about \$5,300.
- 1997–1998** *A Model Institution for Excellence*, The University of Texas at El Paso. “*S.O.S. Mathematics*”. With M.A. Khamsi and N. Marcus, funded in the amount of about \$100,000.
- 1996–1997** *A Model Institution for Excellence*, The University of Texas at El Paso. “*Reforming the Differential Equations Course*”. With M.A. Khamsi, funded in the amount of about \$45,000.
- 1996–1997** *A Model Institution for Excellence*, The University of Texas at El Paso. “*S.O.S. Mathematics*”. With A. Duval, M.A. Khamsi and N. Marcus, funded in the amount of about \$140,000.
- 1994–1995** *Teaching Effectiveness Grant*, The University of Texas at El Paso. “*Computer-assisted Classroom Instruction in Upper-division Mathematics Courses.*” Funded in the amount of \$4,400.
- 1990** *National Science Foundation*, Young Investigator. “*Workshop in Linear Analysis and Probability*”(MCS DMS-8921369). Funded in the amount of \$8,260.

11 Publications

A. Refereed Articles

- 1 Helmut Knaust. *Analysis on the Real Line*. Accepted for publication in the “Journal of Inquiry-Based Learning in Mathematics” (September 2009).
- 2 Benjamin C. Flores, Jana Renner Martínez, Helmut Knaust, Ann Darnell, Lilly Romo and Connie Kubo Della-Piana. *The Effectiveness of a Mathematics Review for Student Placement into College-Level Mathematics*. In: “Proceedings of the 2003 American Society for Engineering Education Annual Conference and Exposition”, 2003.
- 3 Lourdes Sánchez-Contreras, Rosa M. Gómez, Joseph Ramos, Benjamin C. Flores and Helmut Knaust. *Developing a learner centered environment to meet the needs of a growing urban commuter student population*. In: “Proceedings of the 2003 American Society for Engineering Education Annual Conference and Exposition”, 2003.
- 4 Benjamin C. Flores, Connie Kubo Della-Piana, Thomas Brady, Andrew Swift, Helmut Knaust and Jana Renner Martínez. *An Institutional Model for Student and Faculty Support*. In: “Proceedings of the 2002 American Society for Engineering Education Annual Conference and Exposition”, 2002.
- 5 M.A. Khamsi, H. Knaust, N.T. Nguyen and M.D. O’Neill. *Lambda-Hyperconvexity in Metric Spaces*. *Nonlinear Analysis* 43 (2001), 21-31.
- 6 H. Knaust, E. Odell and Th. Schlumprecht. *On Asymptotic Structure, the Szlenk Index and UKK Properties in Banach Spaces*. *Positivity* 3 (1999), 173-199.
- 7 Helmut Knaust. *Some isomorphic preduals of ℓ_1 which are isomorphic to c_0* . *Rocky Mountains Journal of Mathematics* 27 (1997), 181-186.
- 8 H. Knaust. *Angelic spaces with the Ramsey property*. pp. 267–273, in: “Interaction Between Functional Analysis, Harmonic Analysis and Probability, Proceedings”, N. Kalton, E. Saab, S. Montgomery-Smith (eds.), Marcel Dekker, New York, 1995.
- 9 Helmut Knaust. *p -Hilbertian subsequences in $\ell_1(X)$* . *Contemporary Mathematics* 144 (1993), 159–163.
- 10 Helmut Knaust. *Orlicz sequence spaces of Banach-Saks type*. *Archiv der Mathematik* 59 (1992), 562–565.
- 11 Helmut Knaust. *Array convergence of functions of the first Baire-class*. *Proceedings of the American Mathematical Society* 112 (1991), 529–532.
- 12 Helmut Knaust and Edward Odell. *Weakly null sequences with upper ℓ_p -estimates*. pp. 85–107, in: “Functional Analysis, Proceedings, The University of Texas at Austin, 1987–89”, E. Odell, H. Rosenthal (eds.), Lecture Notes in Mathematics 1470, Springer-Verlag, Berlin, 1991.

- 13 H. Knaust and E. Odell. *On c_0 Sequences in Banach Spaces*. Israel Journal of Mathematics 67 (1989), 153-169.

B. Reviewed Articles

- 14 M.A. Khamsi, H. Knaust and N. Marcus. *S.O.S. Mathematics—Students Review Mathematical Concepts on the Internet*. In: “Proceedings of the Eleventh Annual International Conference on Technology in Collegiate Mathematics”, Addison-Wesley-Longman, 1999.

C. Technical Reports

- 15 Helmut Knaust. *Multi-Resolution Analysis for the Haar Wavelet*. March 2009.
- 16 David Carrejo, Hamide Dunlap-Dogan, Art Duval, Helmut Knaust, Olga Kosheleva, Lawrence Lesser, Lucy Michal, Ori Rosen, Emil Schwab, Daniela Szatmari-Voicu, Mourat Tchoshanov, Matthew Winsor and Piotr Wojciechowski. *Practice Exam Questions for the Texas Examinations of Educator Standards [115 Mathematics 4–8]*. March 2006.