

# Dirk Schlingmann, Ph.D.

Professor of Mathematics  
University of South Carolina Upstate

## CONTACT INFORMATION

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## EXECUTIVE SUMMARY

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Forward-thinking, people-centered educator with wide-ranging experience at a variety of outstanding institutions in higher education. Collaborative, collegial, honest, and trustworthy servant leader with a distinguished record of academic administration, teaching, and scholarly activity. Able to support and lead a strong administrative team. Student focused and community minded leader able to motivate others and work effectively with a variety of populations. Relationship builder with strong interpersonal and partnership skills. Evidence and data-based decision maker who values shared governance and open, honest, and respectful discussions. Record of success in increasing enrollments (a green thumb for growth). Effective fiscal steward who supports inclusive, strategic, and transparent budget decisions. Experienced in starting new programs. Able to identify outstanding and attainable opportunities, visualize the results, develop working plans, and follow through to completion. Avid supporter of professional development for faculty and staff. Deeply committed to diversity, equity, inclusion, and international activities. Strong supporter of technology.

## EDUCATION

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| Ph.D.         | Free University of Berlin, Germany, Mathematics, specialization: Logic/Set Theory, topic: Partition Cardinals and the Core Model, 1988. |
| M.S.          | University of Illinois at Urbana-Champaign, Mathematics, 1985.  |
| <i>Diplom</i> | University of Bonn, Germany, Mathematics, specialization: Logic/Set Theory, topic: Ultrafilter on Omega, 1983.                          |

## ACADEMIC LEADERSHIP EXPERIENCE

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- *Dean, College of Arts and Sciences, University of South Carolina Upstate, 2010 - 2018*  
*Responsibilities:*

- Successfully served as chief academic, fiscal, and administrative officer of the largest and most diverse academic unit within the university.
- Led a college comprised of four divisions (Fine Arts and Communication Studies; Languages, Literature and Composition; Mathematics and Computer Science; and Natural Sciences and Engineering), four departments (History, Political Science, Philosophy, and American Studies; Informatics; Psychology; and Sociology, Criminal Justice, and Women's Studies), four centers (Center for Child Advocacy Studies, Center for Interdisciplinary Studies, Center for Watershed Ecology, and Center for Women's and Gender Studies), and the African American Studies Program.
- Oversaw over 145 full-time faculty and over 130 part-time faculty.
- Managed a budget of \$17,000,000.
- Served on the Deans Council.
- Collaborated with search committees and department/division chairs on hiring faculty.
- Prepared accreditation reports and worked effectively with accreditation and certification agencies.
- Reviewed and evaluated promotion and tenure files and annual evaluations of faculty members.
- Prepared strategic plans and reports.
- Worked effectively with South Carolina Commission on Higher Education.

*Highlighted Accomplishments:*

- Implemented a Bachelor of Applied Science (BAS) degree in Advanced Manufacturing Management, which was the first Bachelor of Applied Science degree in the state of South Carolina. This degree was designed in close collaboration with the automaker BMW, other local companies, and regional technical and community colleges to give employees the opportunity to advance to much needed middle management positions.
- Implemented a Master's degree in Informatics (the first Master's degree in the history of the College of Arts and Sciences at the University of South Carolina Upstate).
- Established an international dual-degree program in Informatics and Computer Science between the University of South Carolina Upstate and the University of Applied Sciences Landshut, Germany.
- Initiated a dual-degree program between the University of South Carolina Upstate's College of Business and Economics and the University of Applied Sciences Landshut, Germany. Played a vital role in the success of this program.
- Initiated dual-enrollment partnerships with local high schools. Qualified local high school students are allowed to take several of USC Upstate's courses for college credit. During my tenure, the number rose to over 600 students participating in the dual-enrollment opportunities.
- Assisted with the implementation of 2 + 2 programs in Computer Science, Mathematics, and Statistics with ZAFU, China.
- Built strong collaboration between the University of South Carolina Upstate and international universities. Arranged for international visiting assistant professors to teach in the College of Arts and Sciences.
- Spearheaded and implemented the Bring-Your-Own-Device (BYOD) Initiative.

- Reorganized the College of Arts and Sciences.
- Established strong connections with the University of South Carolina Columbia to establish a 2-year pre-engineering program with their College of Engineering and Computing.
- Supported the implementation of the Child Protection Center at the University of South Carolina Upstate, one of only four such centers in the United States.
- Increased student-credit-hour production in the College of Arts and Sciences.
- Received Graduate Certification in Child Advocacy Studies.
- Revised curricula and the General Education Program.
- Increased the number of majors and graduates in the College of Arts and Sciences.
- Introduced a technology-based college algebra course into the curriculum, bringing monetary savings and improvement in both student learning and D-F-W rates.
- Increased recruitment efforts to attract students to mathematics. Achieved a record number of majors as a result.
- Built strong connections with German companies in the Upstate region of South Carolina.
- Increased on-line course offerings.
- Supported an on-line, self-paced IMS-Business Program for return-to-learn students.
- Supported the Certified Innovation Professional Program through the Continuing Education Program.
- Secured a new mass lecture hall and distance education video conferencing room for the College of Arts and Sciences.
- Submitted a proposal for a Master's degree in Biomedical Sciences in collaboration with the medical university VCOM (The Edward Via College of Osteopathic Medicine in Spartanburg, SC).
- Assisted in the preparation of accreditation reports and worked effectively with various accreditation and certification agencies (SACS, ABET, NASAD, CAHIM, and ACS).
- Participated in several STEM initiatives with local high schools, companies, and community entities.
- Built collaboration between South Carolina eTV and FACS and made eTV's facilities accessible to students and faculty.
- Contributed to the success of the university's Quality Enhancement Program (QEP).
- Converted adjuncts to full-time faculty.
- Organized Rotary World Peace Symposia.
- Secured research labs for science faculty.
- Supported the Center for Teaching Excellence, the Center for Undergraduate Research and Scholarship, and the Office of Sponsored Awards and Research Support.
- Increased the program offerings of the College of Arts and Sciences at the University of South Carolina Upstate's Greenville campus.
- Supported the University of South Carolina Upstate's Direct Connect Program.

- *Chair, Department of Mathematics and Statistics, Eastern Kentucky University, 2004 - 2010*

*Responsibilities:*

- Served as Chair for the main campus and for five extended campuses.
- Successfully managed the second largest department on campus.
- Worked administratively in a complex, multi-campus institution of 16,000 students.
- Responsibly handled the hiring of new personnel, faculty evaluations, curriculum issues, strategic planning and assessment, budgeting, and scheduling of courses for a faculty of twenty-nine people and many part-time instructors and student assistants.
- Successfully guided the department through its accreditation process and program reviews.
- Supervised Master of Science program in the Mathematical Sciences.
- Performed teaching duties that kept me active in the classroom.

*Highlighted Accomplishments:*

- Created governance document and promotion and tenure document.
  - Increased majors by over 100 percent.
  - Established highly successful Statistical Consulting Center, which served both EKV and the community.
  - Worked with faculty to recruit three internationally known mathematicians as Wilson Endowed Chairs to enhance research activities in the department.
  - Introduced and supported technology in the classroom.
  - Built collaboration between the Department of Mathematics and Statistics and local high schools and teachers.
  - Was selected to give prestigious Roark Lecture at Eastern Kentucky University.
  - Created an advisory board for Eastern Kentucky University's Department of Mathematics and Statistics consisting of members from business and academics.
  - Established a *Mathematica* workgroup at Eastern Kentucky University to foster cross-discipline educational and scholarly projects among colleagues in mathematics and statistics, chemistry, physics, biology, music, and art.
  - Collaborated on a scholarly project with the Chair of the Department of Chemistry at Eastern Kentucky University.
  - Collaborated with many faculty both inside and outside of the Department of Mathematics and Statistics.
- *Chair, Department of Mathematics and Computer Science, Bethany College, 2000 - 2003*

*Responsibilities:*

- Served as Chair of the Department of Mathematics and Computer Science.
- Taught classes, advised students, and served on several college committees.
- Responsibly planned and monitored the department budget and equipment purchases.
- Prepared schedules of semester course offerings.
- Reviewed and edited course catalog information.
- Hired and evaluated faculty.
- Made curriculum changes.

- Assisted with accreditation reports and program reviews.
- Monitored department course assignments.
- Wholeheartedly supported Bethany College's emphasis on excellence in undergraduate teaching and research and close working contact between students and faculty.

*Highlighted Accomplishments:*

- Increased the number of majors to a record level for the department.
- Created internship program with USX (US Steel and Marathon Oil) for sophomores and juniors in the Department of Mathematics and Computer Science.
- Strongly supported recruitment and mentoring of international students.
- Introduced and supported technology in the classroom.
- Served as Advisor to the 2001 and 2002 Bethany College valedictorians.

### **SUMMARY OF ADMINISTRATIVE AND ACADEMIC POSITIONS**

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- Professor of Mathematics (with tenure), Division of Mathematics and Computer Science, University of South Carolina Upstate, 2010 - Present.
- Dean and Professor of Mathematics (with tenure), College of Arts and Sciences, University of South Carolina Upstate, 2010 - 2018.
- Chair and Professor of Mathematics (with tenure), Department of Mathematics and Statistics, Eastern Kentucky University, 2004 - 2010.
- Chair and Professor of Mathematics (with tenure), Department of Mathematics and Computer Science, Bethany College, 2000 - 2003.
- Professor of Mathematics (with tenure), Department of Mathematics and Computer Science, Bethany College, 1990 - 2004. Achieved rank of Full Professor in 2001. Received tenure in 1995.
- Visiting Professor of Mathematics, Department of Mathematical Sciences, University of the Virgin Islands, United States Virgin Islands, sabbatical year, 2003 - 2004.
- Visiting Assistant Professor of Mathematics, Department of Mathematics, University of Michigan, 1989 - 1990.
- Research Assistant, Department of Mathematics, Free University of Berlin, Germany, 1986 - 1988.
- Teaching Assistant, Department of Mathematics, University of Illinois at Urbana-Champaign, 1982 - 1985.
- Teaching Assistant, Department of Mathematics, University of Bonn, Germany, 1980 - 1982.

### **CONTRIBUTIONS THAT INCREASED ENROLLMENT, RETENTION, AND GRADUATION RATES**

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- Increased recruitment efforts to attract students to mathematics at USC Upstate. Achieved a record number of mathematics majors as a result.
- Increased the number of majors and graduates in the College of Arts and Sciences at USC Upstate.
- Introduced a Bachelor of Applied Science degree in Advanced Manufacturing Management at USC Upstate, which was the first Bachelor of Applied Science degree in the state of South

Carolina. This degree was the university's answer to fulfilling a need that local industry had to train their own qualified employees so that these employees could advance to middle management positions. This degree was designed in close collaboration with the automaker BMW, other local companies, and regional technical and community colleges.

- Played a vital role in the establishment of a Master's degree in Informatics, the first Master's degree in the history of the College of Arts and Sciences at USC Upstate.
- Made strong connections with USC Columbia to establish a 2-year pre-engineering program with their College of Engineering and Computing.
- Enhanced USC Upstate's international offerings by working to establish international exchanges and dual-degree programs.
- Initiated dual-enrollment partnerships with local high schools. During my tenure as Dean of CAS at USC Upstate, the number of high school students participating in the dual-enrollment opportunities rose from zero to over six hundred.
- Developed relationships with local industries, high schools, and two-year institutions.
- Organized events to enhance awareness of USC Upstate in the community, and built strong connections with community and business leaders.
- Simplified the mathematics and mathematics education curricula at Eastern Kentucky University to make it easier for students to double major in mathematics and mathematics education. The result was an increase in majors of over 100 percent.
- Supported a successful grant proposal at Eastern Kentucky University to improve mathematics education, which helped to increase enrollment in mathematics and mathematics education.
- Increased the number of mathematics majors and graduates in the Department of Mathematics and Computer Science at Bethany College.

#### **TECHNOLOGY AND STEM/STEAM ACCOMPLISHMENTS**

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- Designed and taught an innovative, interdisciplinary, technology-based course on mathematics and music for the University of South Carolina Upstate's honors program. Twice received the award for excellence in honors teaching at USC Upstate for this course. Successfully taught this same course several times as a seminar at the University of Applied Sciences Landshut, Germany. Led STEAM workshops based on this course at several schools in China and in Kenya.
- Successfully completed the University of South Carolina Upstate's online-teaching certification course.
- Have been a strong supporter of the use of technology to complement instruction and learning.
- Have always encouraged and supported faculty and colleagues who have taken calculated risks to incorporate new technologies into their teaching.
- Have been a strong supporter of STEM/STEAM initiatives.
- Developed strong scholarly interest and firsthand experience in the area of technology-enhanced learning.
- Successfully implemented the campus-wide initiative Bring-Your-Own-Device (BYOD) at the University of South Carolina Upstate.
- Introduced technology-based mathematics courses at the University of South Carolina Upstate.

- Worked with USC Upstate mathematics faculty to simplify the mathematics curriculum and to increase recruitment efforts to attract students to mathematics. As a result, we achieved a record year of over fifty mathematics majors, something never seen before at USC Upstate.
- Served many years on USC Upstate's IT Advisory Committee and supported technology upgrades of many of the college's classrooms and technology-based projects.
- Supported USC Upstate's online teaching seminar, which is a course that faculty must pass before being allowed to teach an online course. I, myself, have taken and successfully passed this course.
- Have been involved with numerous STEM/STEAM activities in the Spartanburg community, such as serving on STEM advisory boards for several high schools, giving talks, serving as a Board member for Spartanburg's Science Center, and collaborating with the STEM Board of the Upstate to increase STEM awareness in the Upstate region of South Carolina.
- Initiated a *Mathematica* workgroup at Eastern Kentucky University for interdisciplinary scholarly activities.
- Arranged for Calculus I to be taught via ITV for the first time at the extended campuses of Eastern Kentucky University, spring 2006.
- Taught a distance education course for the University of the Virgin Islands between the islands of St. Thomas and St. Croix using video conferencing equipment and *Net Meeting*.
- Wrote a grant proposal for the University of the Virgin Islands to receive funding for an interactive computer classroom with computer lab.
- Served as member of the Appalachian College Association Tech Summit 2002 Planning Committee.
- Selected as a Salzburg Seminar Fellow to discuss the future of technology and distance learning in education worldwide at the International Global Salzburg Seminar in Salzburg, Austria.
- Served as a faculty representative for the Appalachian College Association Technology Center Quad Team, which had been assembled to write a grant proposal to secure funding for a technology infrastructure that would support ACA academics, libraries, administration, and student affairs for all thirty-four ACA institutions.
- Participated in the regional Ohio Valley Information Technology Initiative with representatives from government, business, and education to bring information technology into the Ohio Valley.
- Participated in Ohio Valley regional information technology symposia to enhance information technology education and enterprises.
- Have taught many of my classes in the computer lab to utilize computers whenever possible. For my willingness to introduce new courses using technology, I was nominated for the Cutting-Edge Award by the ACA, and I received the MacBeth Award from Bethany College.

#### ACCOMPLISHMENTS IN INTERNATIONALIZATION

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- Worked closely with the Center for International Studies at the University of South Carolina Upstate to enhance international collaboration.

- Established dual-degree programs in Informatics and Computer Science between the University of South Carolina Upstate and the University of Applied Sciences Landshut, Germany.
- Continued collaboration between the University of South Carolina Upstate and the University of Applied Sciences Magdeburg-Stendal, Germany.
- Supported international collaboration between the Rose Theatre in London, England, and the University of South Carolina Upstate's theatre program.
- Established dual-degree programs between the University of South Carolina Upstate and Chinese universities.
- Arranged for student and faculty exchange program between the University of South Carolina Upstate and Netanya Academic College, Israel.
- Arranged for student and faculty exchange program between the University of South Carolina Upstate and the University of Koblenz-Landau, Germany.
- Arranged for student and faculty exchange program between the University of South Carolina Upstate and the University of Applied Sciences Landshut, Germany. Helped organize dual-degree programs in business, computer science, and informatics.
- Assisted in establishing exchange partnerships between the University of South Carolina Upstate and universities in India, Kenya, Spain, Costa Rica, and Nicaragua.
- Traveled to China as part of a delegation from the University of South Carolina Upstate to visit partner institutions.
- Coordinated TEASE (Transatlantic Exhibition of Art in the SouthEast) art show at the University of South Carolina Upstate's The George building, fall 2014 and fall 2016.
- Assisted with international art show, *From 'bourg to 'burg*, Spartanburg Art Museum, Spartanburg, SC, fall 2013.
- Arranged for student and faculty exchange program between Eastern Kentucky University and Netanya Academic College, Israel.
- Arranged for semester visit to Eastern Kentucky University by Dr. Douglas Iannucci, Chair of the Department of Mathematics, University of the Virgin Islands.
- Supported three international Wilson Endowed Chairs (United Kingdom, Hungary, Israel), Eastern Kentucky University.
- Taught as a Visiting Professor of Mathematics in the Caribbean at the University of the Virgin Islands, St. Thomas, United States Virgin Islands, 2003 - 2004.
- Participated in ACA two-week faculty development seminar in Mexico: *Art, Architecture, and Culture of Mexico*, summer 2003. Awarded a Berger Foundation travel grant.
- Participated in ACA Internationalization Summit, Kingsport, Tennessee, spring 2003.
- Selected as a Salzburg Seminar Fellow of session 379/Universities Project, "Alternate Systems and Structures of Higher Education: Public Needs and Institutional Response for the 21st Century," Global Salzburg Seminar, Salzburg, Austria, July 1 - 8, 2000.
- Selected as the Bethany College faculty representative for a one-week cultural trip to Nihon Fukushi University in Nagoya, Japan, November 2001.
- Served as Advisor to the International Student Association, Bethany College, 1993 - 2002.
- Served as International Student Advisor, Bethany College, 1993 - 1994.
- Founded the international student band, *Kosmos*, at Bethany College.

- Studied as a German international student, Department of Mathematics, University of Illinois at Urbana-Champaign, 1983 - 1985.
- Traveled internationally to many European countries, Canada, Chile, China, Costa Rica, Japan, Kenya, Mexico, Morocco, Nicaragua, Singapore, and Sri Lanka.

### TEACHING EXPERIENCE AND AWARDS FOR TEACHING

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- University of South Carolina Upstate
  - 2019-Present Professor of Mathematics, Division of Mathematics and Computer Science.
    - Nominated for the 2023-2024 USC Upstate Excellence in Teaching and Advising Award.
    - Nominated for the 2019-2020 USC Upstate Excellence in Teaching and Advising Award.
  - Fall 2016 Taught honors course on mathematics and music. Received award for Excellence in Honors Teaching.
  - Fall 2014 Taught honors course on mathematics and music. Received award for Excellence in Honors Teaching.
- Eastern Kentucky University
  - 2004 - 2010 Professor of Mathematics, Department of Mathematics and Statistics.
- University of the Virgin Islands, United States Virgin Islands (sabbatical)
  - 2003 - 2004 Visiting Professor of Mathematics, Department of Mathematical Sciences.
- Bethany College, West Virginia
  - 1990 - 2004 Professor of Mathematics, Department of Mathematics and Computer Science.
- University of Michigan
  - 1989 - 1990 Visiting Assistant Professor of Mathematics, Department of Mathematics.
- University of Illinois at Urbana-Champaign
  - 1982 - 1985 Teaching Assistant, Department of Mathematics.
- University of Bonn, Germany
  - 1980 - 1982 Teaching Assistant, Department of Mathematics.

### PRESENTATIONS, SEMINARS, TALKS, AND WORKSHOPS

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- “Mathematics and Music,” seminar, University of Applied Sciences Landshut, Germany, May 2024.
- “Mathematics and Music,” seminar, University of Applied Sciences Landshut, Germany, December 2023.
- “Resurrection,” paper accepted for presentation at the Mathematics of Various Entertaining Subjects (MOVES) conference, National Museum of Mathematics, New York City, August 6 - 8, 2023.
- “Resurrection,” paper presented at the New York City Electroacoustic Music Festival 2023, New York City, June 19 - 25, 2023.

- “Mathematics and Music,” seminar, University of Applied Sciences Landshut, Germany, May 2023.
- “Mathematics and Music,” seminar, University of Applied Sciences Landshut, Germany, December 2022.
- “Music via Math,” talk given to the WIU Composition Seminar, Western Illinois University, Macomb, Illinois, September 12, 2022.
- “Mean Beethoven,” paper presented at the Bridges Aalto 2022 Conference, international conference on mathematical connections in art, music, architecture, and culture, Aalto University, Helsinki and Espoo, Finland, August 1 - 5, 2022.
- “Analysis and Synthesis of Music Using Mathematics and Computing,” series of two seminar talks, Strathmore Institute of Mathematical Sciences, Strathmore University, Nairobi, Kenya, May 20 and 27, 2022.
- “Music via Math,” seminar, Strathmore Institute of Mathematical Sciences, Strathmore University, Nairobi, Kenya, May 26, 2022.
- “Analysis and Synthesis of Music Using Mathematics and Computing,” virtual public lecture, Strathmore Institute of Mathematical Sciences, Strathmore University, Nairobi, Kenya, May 25, 2022.
- “Applied Discrete Mathematics,” series of four talks given at Strathmore Institute of Mathematical Sciences, Strathmore University, Nairobi, Kenya, May 23, 24, 25, and 30, 2022.
- “Mathematics and Music,” seminar, University of Applied Sciences Landshut, Germany, May 2022.
- “Mathematics and Music,” seminar, University of Applied Sciences Landshut, Germany, December 2021.
- “Analysis and Synthesis of Music Using Mathematics and Computing,” invited to give a workshop at the 6th Strathmore International Mathematics Conference, Strathmore University, Nairobi, Kenya, June 29, 2021.
- “Mathematics and Music,” seminar, University of Applied Sciences Landshut, Germany, June 2021.
- “Mathematics and Music,” seminar, University of Applied Sciences Landshut, Germany, December 2020.
- “Mathematics and Music,” seminar, University of Applied Sciences Landshut, Germany, May 2020.
- “Mathematics and Music,” seminar, University of Applied Sciences Landshut, Germany, December 2019.
- “Mathematics and Music,” seminar, University of Applied Sciences Landshut, Germany, April 2019.
- “Mathematics and Music,” seminar, University of Applied Sciences Landshut, Germany, October 2018.
- “STEAMed Music,” 2018 Hawaii University International Conferences on STEM/STEAM and Education, Honolulu, Hawaii, June 7, 2018.
- “Mathematics and Music,” College of Charleston, Charleston, SC, February 19, 2018.
- Seminar on Mathematics and Music, University of Applied Sciences Landshut, Germany, December 2017.

- “STEAM and Music,” leader of workshops at several schools in China, summer 2017.
- “Mathematics and Music,” seminar, University of Applied Sciences Landshut, Germany, December 2016.
- “The Global South Summit: A Summit on the Changing Face of the Upstate,” panel participant, University of South Carolina Upstate, November 16, 2016.
- “Mathematics and Music,” American Mathematical Society Southeastern Section Meeting, North Carolina State University, Raleigh, NC, November 12, 2016.
- “Mathematics and Music,” Eastern Kentucky University, Richmond, KY, September 23, 2016.
- “Math and Music,” Mathematics-You-Can-Touch event, Goethe Zentrum, Atlanta, GA, September 17, 2016.
- “Teaching Mathematics and Music Using Technology,” 2016 Global Conference on Teaching and Learning with Technology, Singapore, June 2016.
- “Mathematics and Music,” Troubadour Series, Wofford College, Spartanburg, SC, February 17, 2016.
- “Mathematics and Music,” AMS-EMS-SPM International Meeting 2015, Porto, Portugal, June 13, 2015.
- “Using Mathematics to Analyze, Manipulate, and Create Music,” Bradley Biera, Sarah Neary, Dirk Schlingmann, David Tran, Vivian Tran, The Eleventh Annual SC Upstate Research Symposium, April 17, 2015.
- “Daily Life and Memories from World War I Germany,” panel participant, University of South Carolina Upstate, March 30, 2015.
- “Keeping Your Culture: The American Salad Bowl,” panel participant, The Atlantic Institute in partnership with Greenville Technical College and North Greenville University, Greenville, SC, March 25, 2015.
- “German in Our Region,” session moderator, German Summit, Wofford College, October 11, 2014.
- “25<sup>th</sup> Anniversary of the Fall of the Berlin Wall,” panel participant and event organizer, University of South Carolina Upstate, October 7, 2014.
- “Mathematics and Music,” European Science Café Lecture Series at the Goethe Zentrum, Atlanta, GA, May 14, 2014.
- “Mathematics and Music,” Bethany College, Bethany, WV, April 11, 2014.
- “Mathematics and Music,” Honors Program, University of South Carolina Upstate, Spartanburg, SC, September 24, 2013.
- “Mathematics and Music,” Guy Jacobsohn Mathematics Colloquium Series, Converse College, Wofford College, and University of South Carolina Upstate, Spartanburg, SC, April 21, 2011.
- “Summer Bridge to Calculus,” University of the Virgin Islands, St. Thomas, United States Virgin Islands, June 19 - August 2, 2009.
- “Mathematics and Music,” workshop given for Eastern Kentucky University Upward Bound, Eastern Kentucky University, Richmond, KY, June 2009.
- “Summer Bridge to Calculus,” University of the Virgin Islands, St. Thomas, United States Virgin Islands, June 23 - August 1, 2008.
- “Mathematics and MIDI,” workshop given at the Eastern Kentucky University Mathematics and Science Academy, Eastern Kentucky University, Richmond, KY, June 2008.

- “Mathematics and Music,” talk given at the KYMAA Meeting, Western Kentucky University, Bowling Green, KY, April 2008.
- “Matrices and Geometry,” Eastern Kentucky University Teachers’ Workshop Program, September 2007.
- “Summer Bridge to Calculus,” University of the Virgin Islands, St. Thomas, United States Virgin Islands, June 25 - August 3, 2007.
- “The Mathematics of Music,” workshop given at the Eastern Kentucky University Mathematics and Science Academy, Eastern Kentucky University, Richmond, KY, June 2007.
- “Composition and Analysis of Music Using *Mathematica*,” Kulp and Schlingmann, International Conference on Mathematics and Computing in Music, Berlin, Germany, May 2007.
- “Composition and Analysis of Music Using Mathematics,” Kulp, Machado, and Schlingmann, Roark Distinguished Lecture, Eastern Kentucky University, Richmond, KY, March 2007.
- “Composition and Analysis of Music Using *Mathematica*,” Kulp, Machado, and Schlingmann, Eastern Kentucky University’s Department of Mathematics and Statistics Mathematics Colloquium, Richmond, KY, November 2006.
- “The Dynamics of the Double Pendulum,” co-author of talk given at the Kentucky Association of Physics Teachers Meeting, Lexington, KY, March 2006.
- “Creating Your Own Interactive Websites to Teach Math,” Teachers’ Workshop Program, Eastern Kentucky University, Richmond, KY, September 2005.
- “Fun Interactive Math Found on the Internet,” Teachers’ Workshop Program, Eastern Kentucky University, Richmond, KY, September 2005.
- Mathematics workshop for talented students at the Powell County Middle School, KY, spring 2005.
- “Using *Mathematica* in Mathematical Programming,” MAA Tri-Section Meeting, University of Evansville, Evansville, IN, November 2004.
- “Propositional Logic and Proofs,” Student Technology Leadership Program, Eastern Kentucky University, Richmond, KY, November 2004.
- “*Mathematica* Workshop II,” Eastern Kentucky University, Richmond, KY, November 2004.
- “*Mathematica* Workshop I,” Eastern Kentucky University, Richmond, KY, October 2004.
- “Using *Mathematica* in Algebra 1 and 2,” Teachers’ Workshop Program, Eastern Kentucky University, Richmond, KY, September 2004.
- “Database Design Using Java Database Connectivity,” Appalachian College Association Summit 2003, Johnson City, TN, November 2003.
- “Huffman Encoding Using *Mathematica*,” University of the Virgin Islands, St. Thomas, United States Virgin Islands, September 2003.
- “*Mathematica* Workshop,” Appalachian College Association Technology Summit 2002, Johnson City, TN, October 2002.
- “Using *Mathematica* to Teach Discrete Mathematics,” Appalachian College Association Technology Summit, Johnson City, TN, fall 2001.
- “Teaching Web Design,” Appalachian College Association Technology Summit, University of Tennessee Conference Center, Knoxville, TN, fall 2000.

- “Teaching Multimedia,” Appalachian College Association Technology Summit, University of Tennessee Conference Center, Knoxville, TN, fall 1999.
- “Teaching Computer Science through Music,” Appalachian College Association Technology Summit, University of Tennessee Conference Center, Knoxville, TN, fall 1998.
- “Teaching Multimedia,” MacBeth National Conference, Computing in the Liberal Arts, Bethany College, Bethany, WV, April 1997.
- “Teaching Computer Science through Music,” MacBeth National Conference, Computing in the Liberal Arts, Bethany College, Bethany, WV, April 1997.
- “Exploring New Territories in Music,” MacBeth National Conference, Computing in the Liberal Arts, Bethany College, Bethany, WV, April 1995.
- “MIDI Programming on the Macintosh,” Technical University of Berlin, Berlin, Germany, August 1994.
- “Little Mozart,” MacBeth National Conference, Computing in the Liberal Arts, Bethany College, Bethany, WV, March 1994.
- “*Mathematica* and Calculus,” National Council of Teachers of Mathematics Conference, Pittsburgh, PA, March 1994.
- “*Mathematica*,” workshop given at Otterbein University, Otterbein, OH, April 1993.
- “Graphical and Audio Simulations Using *Mathematica*,” MacBeth National Conference, Computing in the Liberal Arts, Bethany College, Bethany, WV, April 1993.
- “*Mathematica*,” workshop given at Otterbein University, Otterbein, OH, October 1993.
- “Ramsey Cardinals, Erdoes Cardinals, and the Core Model,” Annual American Mathematical Society meeting, San Francisco, CA, January 1991.
- “Ramsey Cardinals, Erdoes Cardinals, and the Core Model,” Annual Association for Symbolic Logic meeting, Carnegie Mellon University, Pittsburgh, PA, January 1991.
- “What is Set Theory All About?” Eastern Michigan University, Ypsilanti, MI, December 1989.
- Series of four presentations on Ramsey Cardinals, Erdoes Cardinals, and the Core Model, University of Michigan at Ann Arbor, September - October 1989.
- “Ramsey Cardinals and the Core Model,” University of Crete, Iraklion, Greece, July 1989.

#### **PUBLICATIONS AND SCHOLARLY/CREATIVE ACCOMPLISHMENTS**

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- “Wild-tempered Clavier,” algorithmic music piece for the piano, accepted for performance at the International Computer Music Conference (ICMC) 2024, Seoul, South Korea, July 7 - 13, 2024.
- “Motion-tempered Clavier,” paper submitted to the International Computer Music Conference (ICMC) 2024, Seoul, South Korea, July 7 - 13, 2024.
- “Creating Algorithmic Music Beyond the MIDI Environment Using Attractive MIDI Instruments,” paper and related algorithmic music sample for the piano, submitted to the Journées d’Informatique Musicale (JIM) 2024, Marseille, France, May 6 - 8, 2024.
- “Resurrection,” paper accepted for publication in the peer-reviewed conference proceedings of the New York City Electroacoustic Music Festival 2023, New York City, June 19 - 25, 2023.

- “Mean Beethoven,” peer-reviewed *Bridges Aalto 2022 Conference Proceedings*, international conference on mathematical connections in art, music, architecture, and culture, Aalto University, Helsinki and Espoo, Finland, August 1 - 5, 2022.
- Series of own algorithmic music albums (*VAMU, NYCMU, FINNMU, MUMU TU, KLAMU, BUMU, REMU, MUMU, FUMU, DEMU, MAMU, LUMU, PERMU, and NUMU*), available on Spotify, iTunes/Apple Music, Google Play, Amazon, etc., 2018 - 2024.
- *Music via Math*, Dirk Schlingmann, an interactive eBook that demonstrates how mathematics can be useful to better understand and explore music and how to increase appreciation of the relationship between mathematics and music, available on Amazon/Kindle, 2019.
- “STEAMed Music,” *2018 8th Annual STEM/STEAM Education Conference Proceedings*, 2018 Hawaii University International Conferences on STEM/STEAM and Education, Honolulu, Hawaii, June 6 - 8, 2018.
- “Teaching Mathematics and Music Using Technology,” Dirk Schlingmann, *Teaching and Learning with Technology, Proceedings of the 2016 Global Conference on Teaching and Learning with Technology (CTLT 2016)*. Edited by Wilton Fok & Vivian Wenting Li.
- *Time Out*, Peter Klassen and Dirk Schlingmann, collaborative audio CD based on my algorithmic computer music, 2014. Participated in CD-release performance in Gallery Groelle pass:projects, Wuppertal, Germany, August 2014.
- “Automatic Detection of Emotions with Music Files,” Angelina A. Tzacheva, Dirk Schlingmann, and Keith J. Bell, *International Journal of Social Network Mining (IJSNM)*, Vol. 1, No. 2, 2012.
- “Using *Mathematica* to Compose Music and Analyze Music with Information Theory,” C. W. Kulp and D. Schlingmann, *Mathematics and Computation in Music, First International Conference*, MCM 2007, Berlin, Germany, May 18 - 20, 2007, Revised Selected Papers Series.
- “Tracking the Motion of a Double Pendulum Using *Mathematica*,” C. W. Kulp, D. Schlingmann, P. Ramsey, J. Hoskins, and K. Roberts, *Mathematica in Education and Research*, Vol. 12, No. 2, pp. 99 - 108, 2007.
- “Composition and Analysis of Music Using *Mathematica*,” C. W. Kulp, M. Machado, and D. Schlingmann, *Mathematica in Education and Research*, Vol. 12, No. 1, pp. 1 - 20, 2007.
- *Sounds from the Solar System*, audio CD of own algorithmic computer music, 1999.
- “Teaching Multimedia,” with Dr. Leslie Lucas, *Bethany College Conference Proceedings*, MacBeth National Conference for Computing in the Liberal Arts and Sciences, 1996.
- “Teaching Computer Science Using Music,” *Bethany College Conference Proceedings*, MacBeth National Conference for Computing in the Liberal Arts and Sciences, 1996.
- “Exploring New Territories in Music,” *Bethany College Conference Proceedings*, MacBeth National Conference for Computing in the Liberal Arts and Sciences, 1995.
- “Little Mozart,” *Bethany College Conference Proceedings*, MacBeth National Conference for Computing in the Liberal Arts and Sciences, 1994.
- “Graphical and Audio Simulations Using *Mathematica*,” Pittenger, Schlingmann, and Whitecotton, *Mathematica in Education*, fall 1993, <http://library.wolfram.com/infocenter/Articles/1025/>.
- “Ramsey Cardinals, Erdos Cardinals, and the Core Model,” *Journal of Symbolic Logic*, March 1991.

**COMMITTEES AND ACADEMIC SERVICE**

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- Faculty Welfare Committee, University of South Carolina Upstate
- Wrote section on program representation for the self-study report, mathematics program review, University of South Carolina Upstate
- Search Committee for MCS Division Chair, University of South Carolina Upstate
- Post-Tenure-Review Unit Criteria, contributor, Division of Mathematics and Computer Science, University of South Carolina Upstate
- Promotion-and-Tenure Peer Review Committee, School of Education, University of South Carolina Upstate
- Promotion-and-Tenure Peer Review Committee, Division of Mathematics and Computer Science, University of South Carolina Upstate
- SACS Reaccreditation Committee, University of South Carolina Upstate
- Grow-Greenville-Campus Committee, University of South Carolina Upstate
- Strategic Planning Committee, University of South Carolina Upstate
- IT Advisory Committee, University of South Carolina Upstate
- Expanded Academic Affairs Committee, University of South Carolina Upstate
- Search Committee for Dean of the College of Education, University of South Carolina Upstate
- Search Committee for Chancellor, University of South Carolina Upstate
- Deans Council, University of South Carolina Upstate
- Center for Innovation and Business Engagement, University of South Carolina Upstate
- World War I Commemoration Committee, University of South Carolina Upstate
- General Education Committee, Eastern Kentucky University
- Chairs' Representative on Search Committee for Provost/Vice President for Academic Affairs, Eastern Kentucky University
- Strategic Planning and Budget Committee, College of Arts and Sciences, Eastern Kentucky University
- CAS Technology Workgroup, Eastern Kentucky University
- CAS College Development Committee, Eastern Kentucky University
- Summer School Task Force, Eastern Kentucky University
- Search Committee for Dean of the College of Education, Eastern Kentucky University

**ACADEMIC ADVISORY BOARDS**

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- Piedmont Technical College, College of Arts and Sciences, Greenwood, SC
- Tri-County Tech, College of Arts and Sciences, Upstate region of South Carolina
- Spartanburg Community College, College of Arts and Sciences, Spartanburg, SC
- Scholars Academy, University of South Carolina Upstate, Spartanburg, SC
- STEM Board, Upstate region of South Carolina
- STEM advisory boards of several local schools, Upstate region of South Carolina
- University of South Carolina Upstate, Center for International Studies, Spartanburg, SC

**ADDITIONAL PROFESSIONAL ACCOMPLISHMENTS**

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- Attended the International Computer Music Conference (ICMC) 2024 at which my original composition “Wild-tempered Clavier,” algorithmic music piece for the piano, was accepted for performance, Seoul, South Korea, July 7 - 13, 2024.
- Attended the conference of the New York City Electroacoustic Music Festival 2023, for which my paper “Resurrection” was accepted for publication in the peer-reviewed conference proceedings, New York City, June 19 - 25, 2023.
- Attended the Bridges Aalto 2022 Conference, international conference on mathematical connections in art, music, architecture, and culture, at which I presented my paper “Mean Beethoven,” Helsinki and Espoo, Finland, August 1 - 5, 2022.
- Hosted “An Evening of Great Conversations,” College of Arts and Sciences, University of South Carolina Upstate.
- Attended the annual meeting of the Council of Colleges of Arts & Sciences (CCAS), New Orleans, LA, November 2010.
- Attended the annual meeting of the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC), Louisville, KY, December 2010.
- Attended the Chair Academy, Nashville, TN, March 2009.
- Served as Building Manager, Wallace Building, Eastern Kentucky University, 2009.
- Attended the Joint Annual Mathematics Meeting, San Diego, CA, January 2008.
- Attended Pioneers Conference, Indiana, fall 2007.
- Attended NSF grant writing workshop, Oak Ridge, TN, April 2007.
- Attended the KYMAA meeting at Northern Kentucky University, March 2007.
- Attended Academic Chair Persons Conference, Orlando, FL, February 2006.
- Attended the Joint Annual Mathematics Meeting, San Antonio, TX, January 2006.
- Secured funding for the unlimited school license for *Mathematica* at Eastern Kentucky University, fall 2005.
- Wrote MathStat CPE 2006 - 2008 Special Funding Request, August 2005.
- Attended the Council of Postsecondary Education (CPE) Teacher Quality Summit, Louisville, KY, fall 2005.
- Attended MAA workshop “Leading the Academic Department: A Workshop for Chairs of Mathematical Sciences Departments,” June 2005.
- Attended the KYMAA meeting at Morehead State University, April 2005.
- Invited Dr. Doris Schattschneider to Eastern Kentucky University to give workshops on Geometer’s Sketchpad and presentation on the mathematics behind Escher’s art, spring 2005.
- Invited Dr. Jerry Uhl and Dr. Bruce Carpenter and their assistants to Eastern Kentucky University to talk about computer-based learning using their *Mathematica* courseware, spring 2005.
- Attended Eastern Kentucky University workshops on assessment, 2004.
- Attended the Council of Postsecondary Education (CPE) Teacher Quality Summit, Bowling Green, KY, fall 2004.
- Participated in three-day workshop, “Hands-on Networking,” Chautauqua Center, University of Dayton, OH, May 11 - 13, 2003.

- Participated in workshop on Director, February 1997.
- Served as Advisor to the Mathematics and Computer Science Club at Bethany College, 1991 - 2002.

## GRANTS

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- TAPS (Teaching and Productive Scholarship) faculty grant, University of South Carolina Upstate, academic year 2022 - 2023.
- Eastern Kentucky University, Department of Mathematics and Statistics, College of Arts and Sciences Federal Funding Grant proposal, “Interactive Computer Laboratory,” submitted spring 2006.
- Department of Defense grant proposal, “Interactive Computer Classroom,” University of the Virgin Islands, submitted spring 2004.
- Berger Foundation travel grant for participation in Appalachian College Association Mexico Faculty Development Seminar *Art, Architecture, and Culture of Mexico*, in Mexico, June 30 - July 14, 2003.
- Mellon Foundation Fellowship for participation as a Salzburg Seminar Fellow, Global Salzburg Seminar, Salzburg, Austria, July 1 - 8, 2000.
- German Research Community Grant, Department of Mathematics, Free University of Berlin, 1987.
- NSF Grant (funded twice), Department of Mathematics, University of Illinois at Urbana-Champaign, summers 1983 and 1984.

## MATHEMATICS AND COMPUTER SCIENCE COURSES TAUGHT

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- Designed and taught course, Mathematics and Music, for the Honors Program at the University of South Carolina Upstate. Given as a seminar at the University of Applied Sciences Landshut, Germany. Led STEAM workshops based on this course at several schools in China and in Kenya.
- Elementary Statistics with MyStatLab; Developmental Studies Mathematics; College Mathematics with MyMathLab; College Algebra (with MyMathLab and in traditional form); Introduction to *Mathematica*; Calculus I, II, and III; Calculus & *Mathematica*; Discrete Mathematics; Differential Equations; Differential Equations & *Mathematica*; Linear Algebra; Matrices, Geometry, & *Mathematica*; Probability and Statistics; Numerical Analysis; Abstract Algebra; Real Analysis; Topology; Foundations of Mathematics; and Mathematics Seminar, Object-oriented programming using C++ and Java; Computer Science I, II, and Data Structures (using Java, C++, C, Pascal); Programming in Java; Programming in *Mathematica*; Programming in LISP; Artificial Intelligence; Software Engineering; Database design (using the Java tools Java Database Connectivity, Java Servlets, Java Server Pages, and Java Beans); Programming in Multimedia; and Web Design.

**SOFTWARE PROGRAMS, COMPUTER AND SCRIPTING LANGUAGES**

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*Mathematica*, Sun's Java Development Kit, Metrowerk's Codewarrior, Adobe Photoshop, Adobe Premiere, Macromedia's Director Multimedia Studio, Dreamweaver, Fireworks, Flash, Final Cut Pro, Cubase Audio, Sounddesigner, Microsoft Office, and MySQL, Java, C, C++, FORTRAN, HTML, Javascript, Lingo, Lisp, Pascal, and SQL.

**COMMUNITY SERVICE**

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- President, German-American Club of the Carolinas
- Co-President, German-American Club of the Carolinas
- Board Member, German-American Club of the Carolinas
- Board Member, Spartanburg Science Center
- Committee Member, Sister Cities International of Greater Spartanburg
- Musician and presenter at community events

**ACTIVITIES DEMONSTRATING FLEXIBILITY AND BREADTH OF INTERESTS**

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My hobbies are music, art, and sports. At USC Upstate and in the Spartanburg area, I have played my guitar in several musical events. I participated in a CD release concert in Germany of my own and another musician's collaborative musical efforts. At ECU, I played violin with the university symphony for Pops in the Park. At Bethany College, I organized two international art shows and put together an international-student band. I have musical training in violin, clarinet, guitar, piano, and theory. I have given many concerts with different orchestras and bands and have given live performances on television and radio. At Bethany College, I hosted a weekly radio show featuring my own algorithmic computer music. I have participated in local and international art shows and art performances. Additionally, I have a soccer-coaching license, and I have coached for youth soccer programs in the Northern Panhandle of West Virginia. I also have certification as an open-water scuba diver.