

Mark R. Anderson



I. PROFESSIONAL BACKGROUND

Dean, College of Science and Mathematics, Kennesaw State University (July 1, 2012 – present): Kennesaw State University is a Carnegie classified institution, Doctoral University – Moderate Research, enrolling over 36,000 students. It is part of the University System of Georgia, and is the third largest University in the system. The college awards 8 undergraduate degrees, 3 M.S. degrees, and 1 Ph.D. degree; has 300 faculty members (121 Tenure/Tenure-track, 54 non-tenure track, and 124 adjunct); and enrolls nearly 3,500 majors. The budget for the college is ~\$23,000,000 managed out of the College office. I am charged with raising the profile of the College to internal and external constituents, supporting the professional development and productivity of our faculty, developing strategies for improving student success in accordance with the Complete College Georgia Initiative, and leading the academic and business operations of a College on 2 campuses.

Responsibilities: Supervise a staff of 14 direct reports, a college faculty of ~300, and have primary budget authority (~\$23,000,000 annual expenditures). I coordinate the curriculum, research, outreach, personnel, resource development and fund-raising, business operations, and alumni activities of the college.

Significant Accomplishments:

- Successfully coordinated the integration of faculty, staff and students from 2 institutions (Kennesaw State University and Southern Polytechnic State University) that resulted from the consolidation of these two institutions.
- Led the development of the College's Student Success strategic plan. This plan includes:
 - Creating a College of Science and Mathematics first year seminar,
 - Implementing Student Learning communities (cohort model for course registration),
 - Creating Faculty professional development communities focused on instruction ("Faculty Learning Communities", "FLC"),
 - Initiating a Learning Assistants program (embedding upper level undergraduates in courses to facilitate active learning strategies),
 - Implementing use of Predictive Analytics to help advise students in course selection,
 - Reorganizing the College Advising office to establish centralized advising with oversight by an Associate Dean for Student Success
- Secured External funding to support Student Success Initiatives (totaling ~\$3,100,000)
 - HHMI Inclusive Excellence, \$1.0 Million – award to support efforts to broaden participation and success of students from underrepresented populations in biomedical sciences degree programs (PI).
 - NIH R25, Peach State Bridges to Doctorate, \$1.02 Million – award to support underrepresented students in the Masters of Integrated Biology and Masters of Chemical Sciences degree programs and help transition them to Ph.D. programs (1/1/15 – 12/31/2018).
 - University System of Georgia – STEM Initiative grant, \$538,000 – award to support our Student Success Initiative to improve student outcomes in STEM disciplines, and to support high impact pedagogies in STEM courses (7/1/2016 – 6/30/2019) (co-PI).
 - NSF – Louis Stokes Alliance for Minority Participation (part of a consortium of Institutions in Georgia), KSU's portion of the grant is \$498,905 (9/1/2016 – 8/31/2021).
 - Association of Public and Land-grant Universities – SEMINAL award, \$98,000 – an award to transform the teaching of the Pre-calculus/Calculus I/Calculus II course sequence to include more active learning strategies and the inclusion of Learning Assistants embedded in these courses. (1/1/2018 – 12/31/2020).
- Increased enrollment in the courses offered by the College and numbers of students majoring in degree programs offered by the College
 - Enrollment in College of Science and Mathematics courses increased 42% from fiscal year 2012 to fiscal year 2018

- The number of students entering the University with an intended major in a College of Science and Mathematics Degree program increased 50% from fiscal year 2012 to fiscal year 2018
- Oversaw the growth in Research and Graduate activity in the College.
 - Faculty professional publications increased 25% (comparing 3-year periods ending in 2012 and 2018),
 - The College currently has the largest number of active NSF and NIH awards in our history, and accounts for ~50% of all external funding to the University.
- Successfully initiated 2 new Thesis based graduate programs, the first in the College, in Integrative Biology, and Chemistry.
- Led the effort to develop and begin a new Ph.D. degree program in Advanced Analytics and Data Science. The first cohort of students entered the University in the fall of 2015.
- Secured the first 2 Endowed faculty positions at KSU, and led the hiring of senior faculty members to fill these roles.
- Established Advancement and Development activities in the college.
 - Secured a gifts of \$250,000 (2014 – 2018) and \$300,000 (2018- 2023) from the Aditya Birla Carbon company to support undergraduate research activities,
 - Secured two gifts from the Georgia Research Alliance (totaling \$200,000) to support research infrastructure growth,
 - Secured gifts from CarMax, Lockheed Martin, and Lexus-Nexus to support student scholarships in Statistics and Advanced Analytics,
 - Received an in-kind gift of Advanced Analytics software from SAS to support the growing Statistics program and the new Ph.D. in Data Science program,
 - Involved in an effort by the University to structure the message and case statement that led to a \$1.25 million donation from the Coca-Cola foundation to support scholarships in STEM for students from underrepresented populations,
- Initiated a marketing plan designed to increase visibility of the college’s agenda to external markets.
- Established a new College standing faculty committee on Equity and Inclusion.
 - Implemented College Learning communities to address student climate concerns,
 - Initiated student focus group studies to understand climate concerns.
- Organized an External Advisory panel composed of business leaders from the Metropolitan Atlanta region. The board has been engaged in the following activities:
 - Developing a Student Mentoring program,
 - Supporting Science Talks, a colloquium that is focused on the Business of Science,
 - Creating a Last-Dollar scholarship fund to support students.
- Organized a Student Advisory panel for the college. This group provides a student perspective on issues facing the College, and is involved in at least one service project for the College annually.

Professor and Chair of the Department of Chemistry, University of Colorado Denver (July 1, 2007 – June 30, 2012):

The University of Colorado Denver is a Carnegie classified institution, Doctoral University – High research activity, enrolling over 15,000 students. It is the only publicly funded University in the metropolitan Denver area and is part of the 3-campus University of Colorado system. The downtown campus of UC Denver consolidated with the Health Sciences campus in 2004, and at that time the mission of Departments on the downtown campus changed to a balanced teaching and research focus. The Chemistry Department has a small M.S. graduate program. I was hired as the Department chair of the Chemistry Department in 2007 with the objective of increasing the profile of the Department to internal and external constituencies, growing the undergraduate program strength, and growing the research activity of the Department. During my tenure, student credit hours generated by the Chemistry Department increased nearly 80% (over AY 2006-2007 levels), the Department hired 8 new faculty, the Department initiated an Honor’s curriculum, the Department began a biochemistry concentration, the Department’s grant production increased 100%, and the number of papers published by chemistry faculty increased nearly 2 times.

Responsibilities: Supervised a staff of 2 and a faculty of 12, had primary budget authority and responsibility, coordinated the curriculum and teaching of the Department, compiled data for and wrote the annual outcomes assessment report, oversee all personnel actions in the Department.

Significant Accomplishments:

- Increased student credit hours generated by ~80%.
- Grant production and funding by Department faculty increased nearly 100% and publications by faculty in the Department increased nearly 2 times during tenure as chair.
- Secured the Donation of a 400MHz NMR from ZettaCore, Inc.
- Co-PI, NSF GK-12: Transforming Experiences: Interdisciplinary Teams of GK-12 Fellows Linking Teacher Professional Development, Middle School award (\$2.9 million, 1/1/2008 – 12/31/2013). As part of this project, I led groups of graduate students on trips to China to learn about the educational system in China.
- The Department implemented a new Honors curriculum.
- Established a new biochemistry option to our undergraduate curriculum.
- Established a flexible model for shared research space organized around common research questions rather than individual faculty programs prior to moving into a new laboratory facility.
- Coordinated the hiring of 8 new members of the faculty.
- The Chemistry Department was the first in the College of Liberal Arts and Sciences to share to new faculty start-up packages with the College– resulting in a significant improvement in the ability of the Department to fund new faculty research programs.

Professor of Chemistry – Department of Chemistry, University of Colorado Denver, Denver, CO 80217-3364 (August 2007 – July 2012) – While the Department Chair, I taught a full schedule of classes (3 courses per term).

Director of CASMIC, the Center for Applied Science and Mathematics for Innovation and Competitiveness (May 1, 2008 – December 1, 2010).

Responsibilities: Supervised the staff director, coordinated proposal submission, coordinated participation of academic units in STEMpalooza (annual STEM K-12 outreach activity), participated in the Math and Science Education and Learning signature area, oversaw an operating budget of ~\$100,000.

Accomplishments: Established STEMpalooza as a signature event for the University’s math and science outreach, established a summer research program to help transition community college transfer students to the UC Denver campus community.

Virginia Polytechnic Institute and State University (August 1, 1989 – June 30, 2007) Virginia Tech is a Carnegie classified institution, Doctoral University Very High research activity, enrolling nearly 27,000 students. The Chemistry Department has a graduate program offering a Ph.D. in Chemistry, has ~150 graduate students in the program, and is typically ranked among the top 60 Chemistry Departments in annual research expenditures. During my last 3 years at Virginia Tech I was the Director of the Chemistry graduate program. In that role, I was the primary advisor to all 1st year graduate students, and was the supervisor to ~70 teaching assistants. During my tenure at Virginia Tech, I taught primarily General Chemistry (both semester courses), Quantitative Analysis, Instrumental Analysis, and a graduate course on Physical Electrochemistry.

Associate Professor of Chemistry - Department of Chemistry, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061-0212 (August 1995 – July 2007).

Responsibilities: Director of Graduate Studies (2004-2007), oversaw a graduate program of ~150 graduate students, 1st year advisor of all new graduate students, supervisor to an administrative assistant and ~71 graduate teaching assistants, administered all graduate admissions.

Accomplishments:

- Transitioned the Department from paper-based application and student record keeping to digital/computer application and record keeping. Organized and coded the Department’s graduate student admissions/progress database (updated, and still in use today).
- Awarded the College of Science Certificate of Teaching Excellence (2004).
- Awarded the Chemistry Department’s Faculty Teaching award (2003).
- Recipient of the 1995 Society for Electroanalytical Chemistry Young Investigator Award.

Assistant Professor of Chemistry - Department of Chemistry, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061 (August 1989 - July 1995).

Post Doctoral Fellow - Department of Chemistry, University of Utah, Salt Lake City, UT 84106 (August 1987 - July 1989).

Graduate Research Assistant - Department of Chemistry, University of Wisconsin-Madison, Madison WI 53706 (June 1984 - August 1987).

Graduate Teaching Assistant - Department of Chemistry, University of Wisconsin - Madison, Madison, WI 53706 (August 1983 - May 1984), TA for Chemistry 223, Chemistry majors section of Quantitative Analysis.

II. EDUCATION

Ph.D. - University of Wisconsin-Madison, Madison, WI 53706 (August 1983 - August 1987).

Ph.D. Thesis Title: Surface Enhanced Raman Studies of the Electroactive Forms of Some Substituted Pyridines.

Advisor: Dennis H. Evans (retired)

B.S. - Indiana University, Bloomington, IN 47405 (August 1979 - May 1983).

Undergraduate Thesis Title: Electrochemical Reduction of tert-Butyl Bromide at Vitreous Carbon Electrodes.

Advisor: Dennis G. Peters

III. PROFESSIONAL DEVELOPMENT

American Association of State Colleges and Universities, American Academic Leadership Institute (July 1, 2016 – June 30, 2017).

Management and Leadership in Education workshop – Harvard Graduate School of Education, Harvard University, Cambridge, MA (June 19, 2016 – July 1, 2016).

Excellence in Leadership Institute – University of Colorado System (August 2010 – May 2011).

Visiting Scholar – Department of Chemistry, University of North Carolina, Chapel Hill, NC 27516 (January 2000 – August 2000).

IV. HONORS, AWARDS, and NOMINATIONS

2017 Kennesaw State University Distinguished Contributions to the University (for my role in Developing and the

Ph.D. in Analytics and Data Analytics Science).

2004 Virginia Tech, College of Science Certificate of Teaching Excellence.

2003 Virginia Tech Department of Chemistry Faculty Teaching Award.

1995 Recipient of the Society for Electroanalytical Chemistry Young Investigator Award

Phi Beta Kappa, elected 1983.

V. PUBLICATIONS

Mark Anderson has authored/coauthored 50 publications in refereed professional journals. His total body of work has been cited over 1000 times, and has an h-index of 15 and an i-index of 23 (scholar.google.com). Most recent and some of the most significant publications are listed below, complete list available on request. (ResearchID: B-9171-2008, ORCID: <http://orcid.org/0000-0001-5627-4148>)

“The Effect of Ion-Pairing on the Open Circuit Potential of 3-Mercaptopropionic acid Modified Gold Electrodes”, Mark R. Anderson and Alice C. Harper, *ECS Transactions*, 2010, 28(18)I, 3-10.

“Electrochemical Glucose Sensors – Developments using Electrostatic Assembly and Carbon Nanotubes for Biosensor Construction”, Alice Harper and Mark R. Anderson, *Sensors*, 2010, 10(9), 8248-8274. DOI: 10.3390/s100908248

“Potential Driven Deposition of Polyelectrolytes onto the Surface of Cysteine Monolayers Assembled on Gold”, Wesley Sanders and Mark R. Anderson, *Journal of Colloid and Interface Science*, 2010, 342(2), 499-504. DOI: 10.1016/j.jcis.2009.10.033

“Potential Driven Deposition of Poly(diallyldimethylammonium) chloride onto the Surface of 3-Mercaptopropionic Acid Monolayers Assembled on Gold”, Wesley Sanders, and Mark R. Anderson, *Langmuir*, 2008, 24(22), 12766-12770. DOI: 10.1021/la801512g

“Characterization of Carboxylic Acid Terminated Self-Assembled Monolayers by Electrochemical Impedance Spectroscopy and Scanning Electrochemical Microscopy”, Wesley Sanders, Ricardo Vargas, and Mark R. Anderson, *Langmuir*, 2008, 24(12), 6133-6139. DOI: 10.1021/la704059q

“Simultaneous Determination of Glucose and L-Glutamate using a Capillary Enzyme Reactor with Electrochemical Detection”, Stephanie E. Hooper and Mark R. Anderson, *Electroanalysis*, 2008, 20(9), 1032-1034. DOI: 10.1002/elan.200704140

“Selective Formation of a Symmetric ScN@C₇₈ Bisadduct: Adduct Docking Controlled by an Internal Trimetallic Nitride Cluster”, Ting Cai, Liaosa Xu, Chunying Shu, Hunter A. Champion, Jonathan E. Reid, Clemens Anklin, Mark R. Anderson, Harry W. Gibson, and Harry C. Dorn, *Journal of the American Chemical Society*, 2008, 130(7), 2136-2137. DOI: 10.1021/ja077630m

“Modification of a Capillary for Electrophoresis by Electrostatic Self-Assembly of an Enzyme for Selective Determination of the Enzyme Substrate”, Stephanie E. Hooper and Mark R. Anderson, *Electroanalysis*, 2007, 19(6), 652-658. DOI: 10.1002/elan.200603779

“Structure and enhanced reactivity rates of the D-5h Sc₃N@C-80 and Lu₃N@C-80 metallofullerene isomers: The importance of the pyracylene motif”, Ting Cai, Liaosa Xu, Mark R. Anderson, Harry W. Gibson, Harry C. Dorn, *Journal of the American Chemical Society*, 2006, 128(26), 8581-8589. DOI: 10.1021/ja0615573

“Optimization of Electrode Alignment for Electrochemical Detection in Capillary Electrophoresis using a Scanning Electrochemical Microscope”, David M. Roach, Stephanie E. Hooper, Mark R. Anderson, *Electroanalysis*, 2005, 17(24), 2254-2259. DOI: 10.1002/elan.200503368

“Thin Polyimide Films Prepared by Ionic Self-Assembly”, Mark R. Anderson, Richey M. Davis, C. Douglas Taylor, Michaiiah Parker, Spencer Clark, Daniela Marciu, and Michael Miller, *Langmuir*, 2001, 17(26), 8380-8385. DOI: 10.1021/la011042j

“Dopamine Adsorption at Surface Modified Carbon-Fiber Electrodes”, Bradley D. Bath, Heidi Martin, R. Mark Wightman, and Mark R. Anderson, *Langmuir*, 2001, 17(22), 7032-7039. DOI: 10.1021/la010684

VI. PRESENTATIONS – Mark Anderson made over 100 presentations at professional conferences or invited symposia, complete list available on request.

VII. STUDENT MENTORING – Mark Anderson mentored 11 Doctoral students through their dissertation research, 10 Masters students through their thesis research, and 50 undergraduate research students.

A. Doctoral

Marilyn Gatin Ph.D. Degree, July 1992.
Dissertation: Spectroelectrochemical Analysis of Self-Assembled Monolayers on Gold.
Awards: 1991 Thomas Hirschfeld award from the Federation of Analytical Chemistry and Spectroscopy Societies.

- John A. Roush Ph.D. Degree, September 1992.
Dissertation: Development and Characterization of Novel Detectors for Use in Flow Injection Analysis or Liquid Chromatography.
- Jimin Huang Ph.D. Degree, August 1996.
Dissertation: Characterization of Electrochemical Interfaces by Infrared Spectroscopy.
- C. Douglas Taylor Ph.D. Degree, August 2000.
Dissertation: Influence of Molecular Orientation and Surface Coverage of ω -Functionalized Mercaptans on Surface Acidity.
- Francisco Cavadas Ph.D. Degree, June 2003.
Dissertation: Spectroscopic and Electrochemical Investigation of Phenyl, Phenoxy, and Hydroxyphenyl Terminated Alkanethiol Monolayers.
- Huimin Li Ph.D. Degree, September 2004.
Dissertation: Relationship Between Molecular Structure and Surface Properties of Self-Assembled Monolayers.
- Alice Harper Ph.D. Degree, January 2001 – June 2005.
Dissertation: Modified Electrodes for Amperometric Determination of Glucose and Glutamate using Mediated Electron Transport.
- Stephanie E. Hooper Ph.D. Degree, August 2005 – June 2007
Dissertation: Development of an Ionically-Assembled on-Column Enzyme Reactor for Capillary Electrophoresis.
- Wesley Sanders Ph.D. Degree, August 2005 – November 2008.
Dissertation: Examining the Effects of Applied Potential on the Surface Charge of Functionalized Monolayers for Site-Directed Ionic Self Assembly.
- Leslie Adamczyk Ph.D. Degree, January 2006 – May 2009.
Dissertation: Understanding the Structure and Properties of Self-Assembled Monolayers for Interfacial Patterning.
- Richard Baltzersen Ph.D. Candidate, August 2000 – September 2003 (left without defending dissertation)
Project: Analytical Applications of Au and Ag Nanoclusters.

B. Masters

- Jimin Huang M.S. degree, July 1991.
Thesis: Influence of Cation Size and Surface Coverage Upon the Infrared Spectrum of Adsorbed Carbon Monoxide.
- Susanne Dana M.S. degree, September 1993.
Thesis: Influence of Solvent on the Infrared Spectrum of Carbon Monoxide Adsorbed on Platinum Electrodes.
- Minhui Zhang M.S. degree, September 1996.
Thesis: Investigation of Structure and Permeability of Surfaces Modified with Self-Assembled Monolayers.
- Stephanie Hooper M. S. Degree, August 2004.
Thesis: Separation and Electrochemical Detection of 2,3-DihydroxyBenzoic Acid.

David M. Roach	M.S. Degree, December 2005 Thesis: Application of the Scanning Electrochemical Microscope to Analytical Chemistry
Rachel Fiala	M.S. Degree, May 2010. GK-12 Fellow. Thesis: Exploration of CZE Experimental Parameters as a Function of Capillary Length for the Use of a Microfluidic Device.
Lyubov Sichkareva	M.S. Degree, July 2010. Report: Electrochemical Characterization of the Cystamine Hydrochloride Self-Assembled Monolayer on Gold Surfaces: pH Driven Polyelectrolyte Deposition.
Mark de la Rosa	M.S. Degree, August 2012. Thesis: Self-Assembled Monolayers.

C. Post Doctoral Fellows

James Hoyt Meyer	August 2008 – August 2011. “Preparation and Characterization of Surface-confined Host-Guest complexes”.
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D. Undergraduate

David Thacker	August 1990 - May 1991, B.S. Degree.
Susanne Dana	May 1991 - December 1991, B.S. Degree.
Mathew Jablonski	August 1991 - May 1992, B.A. Degree , transferred to Univ. of South Florida, fall 1992.
Alison Grieshaber	January 1992 - May 1992, January 1993 - May 1993, B.S. Degree in Chemistry, May 1994.
Mimi Buchanan	May 1992 - December 1992, B.A. Degree 1993.
Rebecca Reitmeyer	August 1992 - May 1993, B.A. Degree 1993.
Jeffrey Schmeltz	August 1992 - May 1993 , B.S. Degree in biology 1993.
Mike Terapane	August 1992 - August 1993, B.S. Degree in Chemistry, B.S. Degree, 1994.
Sarah Etania	August 1992 - May 1993, B.S. Degree in Chemistry, May 1994.
Paul Bender	August 1992 - May 1995, B.S. Degree in Chemistry, May 1995.
Joshua Joseph	January 1993 - May 1995, B.S. Degree in Chemistry, May 1995.
Tracy Baker	January 1993 - May 1993, B.S. Degree in Biology, May 1994.
Mark Scalf	January 1993 - May 1995, B.S. Degree in Chemistry, May 1995.
Nicole Cook	August 1993 - May 1994, B.S. Degree in Environmental Science, May 1994.
Alan Peters	January 1994 - May 1994, B.S. Degree in Chemical Engineering, May 1994.
Joon Lee	January 1994 - May 1994, B.S. Degree in Chemical Engineering, May 1994.
Scott Anders	August 1994 - December 1994, B.A. Degree in Chemistry, December 1994.
George Manning	January 1994 - January 1995, B.S. Degree in Chemistry, May 1995.
Richard Anderson	August 1994 - May 1996, B.S. Degree in Chemistry, May 1996.
Cindy Kraft	August 1994 - May 1996, B.S. Degree in Chemistry, May 1996.
Henry Jackson	May 1995 - May 1996, B.S. Degree in Chemistry, May 1996.
Michael Lovrencik	August 1995 - December 1996, B.S. Degree in Chemistry , May 1997.
James R. Gibson	January 1996 - present, B.S. Degree in Biochemistry, May 1997.
Alison Stone	May 1996 - August 1996, B.A. Degree in Chemistry, August 1996.
Jenny Ferrell	August 1996 - December 1996, B S. Degree in Biochemistry, May 1997.
Matt King	August 1996 - December 1996, B.S. Degree in Chemistry, May 1998.
Mike Nuchols	August 1996 - December 1996, B.S. Degree in Chemistry, May 1997.
Erin Graham	August 1996 - May 1997, B.S. Degree in Chemistry, May 1998.
Lynn Beeler	August 1996 - December 1996, B.S. Degree in Chemistry, May 1997.
Ron Davis	August 1997 - May 1999, B.S. Degree in Chemistry, December 1998.
Zoe Burgess	January 1998 - May 1998, B.S. Degree in Chemistry, May 2000.
Kathleen Kelly	August 1998 - May 1999, B.S. Degree in Chemistry, May 2001.
Michiaha Parker*	August 1998 - present, B.S. Degree in Biology, May 2001.

Kim Hahn Ngyun	August 1998 - January 1999, B.S. Degree in Biology, May 2001.
Lindsay Santini	May 1999 – May 2000, B.A. Degree in Chemistry, December 2000.
Jill Ennis	August 2000 – May 2001, B.S. Degree in Chemistry, May 2001.
David Roach	January 2004 – present, B.S. Degree in Chemistry, May 2004.
Hunter Champion	Summer 2004 – REU student.
Jane Skalski	Summer 2005 – REU student, Summer 2006 – REU student.
Ashlin Bollacker	Summer 2005 – REU student.
Ricardo Vargas	Summer 2006 – REU student.
Emily Chen	Summer 2006, Virginia Tech, B.S. in Biochemistry, May 2006.
Jeremy Jones	August 2006 – May 2007, Virginia Tech.
Jonathon Meyers	January 2007 – May 2007, Virginia Tech.
Victoria Lowe	August 2008 – December 2008, University of Colorado Denver.
Christopher Atcherly	January 2009 – May 2009, University of Colorado Denver, B.S. in Chemistry, May 2009.
Hunter Neilson	June 2010 – December 2010, University of Colorado Denver, B.S. in Chemistry, May 2011.
Nicole DuFour	June 2010 – December 2010, University of Colorado Denver, B.S. in Chemistry, May 2011.
Morgan Anderson	June 2010 – May 2011, University of Colorado Denver, B.S. in Chemistry, May 2011.
Heather Barody	June 2010 - May 2011, University of Colorado Denver, B.S. in Chemistry, May 2011.

VIII. MAJOR PROGRAM GRANTS and DONATIONS

Active and Complete

- HHMI Inclusive Excellence, (\$1 million, invited submission based on preproposal competition, 2018 – 2023, KSU).
- Peach State Louis Stokes Alliance for Minority Participation, NSF (sub-award of \$496,000 over 5 years, part of a consortium grant with the University of Georgia as the lead Institution).
- University System of Georgia, Kennesaw State University STEM Student Success Initiative (\$538,000).
- NIH R25 – Peach State Bridges to Doctorate (\$1.02 million, KSU).
- Birla Carbon \$250,000 Donation to Support undergraduate Research (KSU).
- Georgia Research Alliance two gifts of \$100,000– Improving Scientific Instrumentation Infrastructure (KSU).
- CarMax \$50,000 Donation to support student scholarships in Applied Statistics (KSU).
- AT&T \$40,000 Donation to support Peer Mentoring Program (KSU).
- NSF GK-12 – Transforming Experiences: Interdisciplinary Teams of GK-12 Fellows Linking Teacher Professional Development (\$2.9 million, University of Colorado Denver).

Under review

- NIH R25 – Bridges to Baccalaureate (\$1.4 million, pending) – proposal to partner with a Community College to facilitate the successful articulation of students who start their higher education at a 2-year institution into a 4-year program.

IX. PROFESSIONAL SERVICE (recent and significant)

A. University Service

- Council of Academic Deans, Convener (July 2016 – present).
- Strategic Thinking and Planning Committee, Deans’ representative (August 2015 – August 2017).
- Presidents Planning and Budget Advisory Committee, Deans’ representative (July 2014 – June 2016).
- University System of Georgia, College of Arts and Sciences Deans’ Council, Vice Chair (2015- 2017).
- Complete College Georgia committee, member (January 2016 – present).
- KSU High Performance Computing Strategic Planning committee, member (January 2016 – present).
- University Council, Deans’ representative (July 2014 – January 2016).
- Strategic Enrollment Committee, Deans’ representative (August 2016 – August 2017).
- Chair, search committee for the Dean for the Wellstar College of Health and Human Services (August 2014-May 2015)
- Chair, search committee for the Senior Director of Institutional Research at KSU (August 2018 – present)
- Academic Affairs representative, search committee for Associate Vice President for Facilities at KSU (May 2018 – present)

- Academic Affairs representative, search committee for Vice President for Government Relations at KSU (August 2018 – present).
- Deans' representative, search committee for Vice President for Research at KSU (August 2018 – present).

B. Professional Service (external to the University)

- GeorgiaBio, Board of Directors (August 2012 – present).
- Council of Colleges of Arts and Sciences, Large Comprehensive Universities Executive Committee (8/2015 – 6/2017).
- Council for Deans of Arts and Sciences, University System of Georgia, Vice-Chair (8/2015 – 5/2018).
- Electrochemical Society, Division of Physical/Analytical Chemistry, Executive Committee (2010 – 2014).