

Sasha L. Jarrell, Ph.D.

18580 Hattaway Road
Opp, AL 36467
sashajarrell@gmail.com
(334) 449-3456

EDUCATION

Ph.D. in Applied Discrete Mathematics

May 2004

Auburn University, Auburn, AL

Dissertation: "Maximal Sets of Hamilton Cycles in Complete Multipartite Graphs"

Advisor: Chris A. Rodger, Ph.D.

4.0 GPA

M.S. in Applied Discrete Mathematics

December 2001

Auburn University, Auburn, AL

Advisor: Chris A. Rodger, Ph.D.

4.0 GPA

B.S. in Secondary Mathematics Education

August 2000

Auburn University, Auburn, AL

3.9 GPA-Summa Cum Laude

Transfer Coursework

Enterprise State Community College, Enterprise, AL

3.78 GPA

ADMINISTRATIVE EXPERIENCE AND ACCOMPLISHMENTS

Special Assistant to the Dean

October 2019 -Present

Florida State University, Panama City, FL

- Assists with Special Projects, Program Development, and data analysis

Interim Vice President of Teaching and Learning

January 2019-June 2019

Northwest Florida State College, Niceville, FL

- Served as the College's Chief Academic Officer, providing leadership during a national search

Accomplishments

- Re-organized outlying center staffing to align with enrollment patterns/student demand resulting in energy efficiencies through space optimization, centralized training for staff, and resource shifts to create a new dual enrollment department to serve a growing population. The re-organization was budget neutral with the potential for long-term savings (energy).
- Increased the number of industry certifications earned by students by 25% year-over-year resulting in over \$200K of state performance funding (non-budgeted revenue).

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- Led the Academic Leadership team through strategic planning sessions to develop a case for need for the college's capital campaign.
 - Streamlined and reduced programmatic offerings to align with current workforce needs.
 - Partnered with the Walton County Sheriff's office and entered into an agreement with the intent to expand public safety training opportunities on the employer's grounds to benefit a larger population to include the incarcerated.
 - Prepared a white paper on dual enrolment policy revisions needed legislatively to improve funding through an incentive/performance funding model.

Coordinator of Special Projects

Northwest Florida State College, Niceville, FL

July 2017- December 2018

- Coordinated and Administered Special Projects as determined by the President of the College

Accomplishments

- Secured \$5.7M in Triumph Grant Funding (BP Oil Spill Settlement Funds), to include a match of \$1.5M from Walton County, to expand Workforce Training in Walton County, FL through a project titled "Walton Works".
- Developed and implemented a year-long "President's Leadership Academy" professional development program to foster the development of internal leaders.
- Provided interim leadership for multiple areas of the college to include the Mathematics Department and the Adult Education Department.

Interim President

Northwest Florida State College, Niceville, FL

January 2016-December 2016

- Served as the College's Chief Executive Officer, providing leadership during two national presidential searches

Accomplishments

- Led the College to a successful completion of the SACSCOC fifth year interim report (no findings).
- Recommended to the Chancellor a mathematical revision to the Performance Based Funding model which was supported by the Council of Presidents and ultimately included in the state's model.
- Provided, with the Board Chair, necessary training for the orientation of four new board members appointed by the Governor.
- Engaged with newly elected representatives and senators to include campus tours and meetings on campus with the College's senior leadership team. (The College had not been legislatively active for over six years.)
- Led a sub-committee, inclusive of a board member, to vet potential lobbyists/firms for the incoming president's timely selection.
- Led the Executive Council through strategic sessions to identify issues preventing the College from reaching its maximum potential. Those issues were further analyzed and identified as either issues associated with external factors or issues within internal control. Any issues associated with policy were presented to the Board of Trustees in a workshop to determine a local legislative agenda.
- Authored a white paper on the policy conflict between new Department of Defense (DoD) regulations and state policies which placed state colleges,

particularly those with high proportions of students receiving Military Tuition Assistance, at a disadvantage relative to universities, for-profit institutions, and out-of-state institutions. The paper resulted in bill that was sponsored by a local house representative and passed through multiple sub-committees. (The following year, the bill passed both the house and senate.)

Vice President of Academic Affairs

Northwest Florida State College, Niceville, FL

March 2011-December 2016

January 2017-July 2017

- Served as the Chief Academic Officer of the College reporting to the President and served as the Senior College Administrator in the absence of the President (Served as Acting President January and February, 2014)
- Provided fiscal oversight of annual operating budgets of approximately \$4 million plus state and federal grant funds
- Oversaw legislative, regulatory, and accreditation changes for impact and action
- Administered all the college's instructional divisions, including all transfer and workforce programs, baccalaureate programs, adult education, online learning, continuing education, the Collegiate High School, dual enrollment, and developmental education
- Supervised all instructional personnel of the college, including approximately 150 full-time faculty and support staff
- Led curriculum development and ensured course and program quality and integrity
- Coordinated faculty and staff professional development
- Administered the college's learning support services, including all tutoring centers and the college's library
- Administered educational grants, institutional research, outcomes assessment, and strategic academic planning

Accomplishments

- Led the development of two new baccalaureate degrees: Bachelor of Science in Early Childhood Education and Bachelor of Applied Science in Management and Supervision. The latter was designed with one track meeting the Governor's request for a \$10,000 degree. Supervised a redesign of the curriculum in the existing Bachelor of Science in Project Management to improve relevance to student and community needs.
- Led the development of a new certificate program in welding. This new program required the development of curriculum, renovation of facilities, the purchase of equipment, and hiring of new faculty and support staff. The program was considered a substantive change by SACSCOC definition and also required a written prospectus to gain approval.
- Expanded the availability of course offerings to offer more than 50% of a degree at the College's South Walton Campus, which was also considered a substantive change by SCSCCOC definition and required a written prospectus to gain approval.
- Led the creation of degree plans for all programs at the college. These degree plans map out the semester-to-semester program requirements and provide students with information about future course offerings to improve degree completion time. These maps also provide a framework for the college to ensure course scheduling optimization.
- Led the effort to define and map all required pre-requisites for each transfer major in the state of Florida (200+ majors) for inclusion in the new degree auditing software. Systematic programming to ensure students, upon major selection, have a customized degree plan with associated pre-requisites required, thereby eliminating extra hours upon transfer.

- Led the redesign of developmental education at Northwest Florida State College after the passing of Senate Bill 1720. This bill eliminated the requirement for certain populations of students to take developmental education courses and called for a redesign of all developmental curriculum. The redesign impacted many areas of the college including advising, instruction, testing, reporting, etc.
- Led the redesign of the college's general education curriculum after the revision of Florida Statute 1007.25. This revision called for a common "core" of fully transferrable general education selections to be shared among all Florida State Colleges and Universities. This redesign lasted over a year and consisted of multiple strategic meetings involving faculty input and careful curriculum development.
- Provided leadership in shifting the College's focus from online "course" development and promotion to a focus on online "program" development and promotion.
- Charged the learning technology department with solidifying SREB membership. This consortium membership provides reciprocity agreements enabling colleges to seamlessly offer online classes to out-of-state students in member states.
- Proposed Board Policy language to offer an E-rate, a reduced out-of-state tuition rate for students taking online classes. Together, more online degree offerings, reciprocity agreements with other states, and reduced out-of-state fees set the stage for the College to competitively recruit students from outside its two-county service area.
- Formalized and standardized college credit internships to ensure consistency in the awarding of credits. Charged an ad hoc committee with the responsibility of reviewing career success opportunities to include the potential of a robust internship program among other initiatives.
- Led the Collegiate High School to a successful reaffirmation by Advanced Ed. Presented, by invitation, at the state level on Charter Collegiate High Schools versus Collegiate Programs where the latter was defined in Senate Bill 850 and required all Florida Colleges to implement a collegiate "program".
- Adjusted scheduling to attract recent high school graduates with more short-term offerings after HS graduation. Championed the message to apply early for financial aid given the opportunity to receive three semesters of aid in one academic year after high school graduation.
- Developed strategic scheduling for course offerings in Walton County to enable students to complete general education curriculum with planned complementary offerings at the north and south end of the county.
- Led multiple "Vision 2020" listening sessions with industry leaders by workforce cluster to determine programmatic needs.
- Championed the development of the NWF2UWF and the NWF2FSUPC partnerships for seamless admission to the University of West Florida and Florida State University Panama City upon completion of the Associate of Arts degree at NWF State College.
- Led the application process for the Aspen Prize, recognizing excellence among community college across the nation, resulting in a second-round phone interview in 2013. (The College has been invited to apply since the inception of the program.)
- Streamlined multiple curriculum procedures for proposing new programs, deleting programs, and reporting changes that fall under the SACSCOC definition of a substantive change.
- Led the College through multiple successful professional accreditations/reaffirmations: Nursing (RN), Paramedic, Dental, Radiography, Welding, Nursing (BSN), and the Collegiate High School.

- Championed several projects to lower student cost and increase retention as exemplified by coordinated efforts to lower textbook costs for general education common core courses.
- Worked with a faculty subgroup and the president to develop consistent compensation for department chairs and a selection process that included peer input.
- Appointed and worked with a faculty group to design a new evaluation process for faculty, as required by state statute, inclusive of a portfolio of work.
- Provided leadership in the implementation of a new Enterprise Resource Planning (ERP) platform-Elusion/Banner. Involved in multiple implementations to include the primary student module and other 3rd party software packages (Faculty Load and Compensation (FLAC), Series 25, and Flex Reg)
- Implemented numerous other software packages to optimize efficiencies in the areas of institutional effectiveness, student complaint resolution, and student surveying. (Compliance Assist, Maxient, Course Eval, etc.)
- Charged the technology committee with setting a standard for classroom technology design which included visits to other colleges to review best practices. Guided the implementation of multiple classrooms with video-conferencing equipment for real-time instruction for students at a distance. (Grant Funded)
- Created a plan for improvement of faculty technology. Office desktops were replaced with laptops and docking stations to enable faculty members to easily infuse their teaching with technology. Developed a 4-year refresh cycle; the first cohort of 25 faculty to receive the new equipment were those who volunteered to take the newly developed online certification course for online instruction.
- Mentored the Director of Instructional Technology and Online Education on state regulations, distance learning fees, operational audits, and academic instructional needs. Steered projects inclusive of the creation an online training certification course for faculty and an online orientation for students. Identified allowable expenses not previously covered by existing distance learning fees resulting in an argument to increase the fee and redirect operational funds in other areas of need.
- Provided leadership in the application process to secure a \$1.3 million Department of Labor grant to support the development of a welding program. The program has been highly successful with faculty, students, and facilities all receiving national awards/recognition.
- Provided prudent management of adjunct and overload expenses. As enrollment decreased over multiple semesters, reduced revenue forced class sections to be merged and collapsed to ensure instructional expenses also decreased. Efforts resulted in fewer sections while maintaining prior average class sizes. Instructional costs dropped at a similar rate relative to enrollment thereby providing an optimal result in a less than optimal situation.
- Led an extensive audit of course fees leading to the discovery of several course specific expenses previously absorbed in the general operating budget. Increased those specific course fees at a time when tuition remained constant and enrollment was down. In the 2015-2016 year, over \$300,000 in absorbed expenses were appropriately aligned.
- Focused attention on increasing retention and graduation rates of students as aligned, measured, and rewarded through the state's Performance Funding Initiatives. Lead a local committee to review best practices for retention. Research led to piloting Learning Communities for first-time-in-college (FTIC) students.
- Implemented monthly long-range planning meetings to bring together academic, facility, foundation, and information technology leadership to

discuss future programmatic growth and the parallel needs in infrastructure and funding to support such growth.

- Guided the design of the Academic Success Center to create a welcoming environment for students. The design featured computers along the perimeter walls so that the space also serves as an open computer lab on campus.
- Collaborated with facilities in the renovation of multiple buildings to include: the Academic Success Center, Welding Lab, Machining Lab, and Electronics Lab.
- Served as the key contact in a lease agreement negotiation with SeaCoast Collegiate High School to rent an underutilized College building during day hours. The partnership proved mutually beneficial for the community and populations served.

Chair of the Department of Mathematics

Northwest Florida State College, Niceville, FL

August 2008-March 2011

- Scheduled approximately 500 math courses each academic year across seven campuses
- Supervised 12 full-time faculty members, approximately 40 adjunct faculty members, one staff assistant, and one math lab coordinator
- Advised students of Engineering Articulation agreements and students seeking upper division math placement
- Prepared Annual Student Learning Outcomes Report
- Prepared Program Review and analyzed trends
- Hired adjunct instructors as needed
- Evaluated faculty and staff annually
- Conducted departmental meetings
- Organized two annual high school mathematics competitions

Accomplishments

- Led annual math competitions for high school students which served as an opportunity for advanced STEM students to visit campus prior to high school graduation.
- Co-chaired the Quality Enhancement Plan (QEP) steering committee and co-authored the plan which was titled "Reading2Learn." The plan was commended by the visiting team.

Lead Faculty of Developmental Mathematics

Northwest Florida State College, Niceville, FL

August 2006 – August 2008

- Supervised approximately 20 adjunct instructors
- Redesigned curriculum for developmental mathematics courses
- Developed and executed semi-annual training workshops
- Created a password-protected instructor website for information dissemination
- Developed common curriculum course shells
- Created sample syllabi, pacing schedules, and common homework assignments for instructors

TEACHING EXPERIENCE

Professor, Department of Mathematics

Northwest Florida State College, Niceville, FL

2006 – 2010

- Developmental Mathematics Courses

- General Education Mathematics Courses
- Mathematics Education Courses

Assistant Professor, Department of Mathematics and Statistics

2004 – 2006

Coastal Carolina University, Conway, SC

- Graduate Mathematics Courses
- Undergraduate Mathematics Courses
- Mathematics Education Courses

Graduate Teaching Assistant, Department of Applied Discrete Mathematics

2000 – 2004

Auburn University, Auburn, AL

- Undergraduate Mathematics Courses
- Mathematics Education Courses

Student Teacher

2000

Samford Middle School, Auburn, AL

- Seventh Grade Mathematics Courses
- Eighth Grade Mathematics Courses

LEADERSHIP TRAINING AND CERTIFICATIONS

President’s Leadership Academy

Northwest Florida State College, August 2018-May 2019

Developed and coordinated a year-long leadership program with the President for internal employees who expressed an interest in professional advancement

Chancellor’s Leadership Seminar

St. Johns River State College, St. Augustine, FL, June 2014

Nomination-only event for individuals recognized with the potential for professional advancement within the Florida College System

Community College Executive Forum Leadership Summit

Washington DC, October 2014

National Educational Advisory Board (EAB) Leadership Summit for Community College Vice Presidents, Presidents, and Cabinet-level administrators

Class A Secondary 6-12, Mathematics

Alabama Teaching Certification (renewal in process)

Class B Secondary 7-12, Mathematics

Alabama Teaching Certification (renewal in process)

Class A Middle School 4-8, Mathematics Endorsement

Alabama Teaching Certification (renewal in process)

Class B Middle School 4-8, Mathematics Endorsement

Alabama Teaching Certification (renewal in process)

HONORS AND AWARDS

Member, State Workgroup on Modular Course Delivery

Northwest Florida State College, Niceville, FL

Charged with working with the state course-wide numbering system to develop a numbering scheme for transcribing course work completed in modules

Chair, State Workgroup on Tutoring Software

Northwest Florida State College, Niceville, FL

Led a state workgroup in reviewing, ranking, and recommending tutoring software for site license negotiations at the state-level

Member, State Workgroup on Developmental Education

Northwest Florida State College, Niceville, FL

Charged with redesigning Development Coursework for Florida

Dean's Graduate Student Research Awardee

Auburn University, Auburn, AL

Annual award to a graduate student in the College of Sciences and Mathematics for exemplary research accomplishments

First Place Award for "Maximal Sets of Hamilton Cycles" Presentation

Clemson University, Clemson, SC, March 21-22, 2003

Awarded first place among all presentations given by graduate students at the Joint Meeting for Southeastern Section Mathematical Association of America (MAA) and Society for Industrial and Applied Mathematics (SIAM) Southeast Atlantic Section

Representative for Auburn University at the Society for Industrial and Applied Mathematics (SIAM)

Montreal, Canada, June 16-20, 2003

Selected to represent Auburn University at SIAM's International Annual Meeting based on leadership and research achievements at the local level

PUBLICATIONS

Do Individual Learner Variables Contribute to Differences in Mathematics Performance?

Melanie Shores, Tommy Smith, and Sasha Jarrell

Journal of the Southeastern Regional Association of Teacher Educators (SRATE Journal)

Volume 18 #2 (Summer 2009)

Maximal Sets of Hamilton Cycles in K_{2p} -F

Sasha Jarrell, Chris Rodger, and Hung Lin Fu

Discrete Mathematics

Issue 13, Volume 308 (July 2008), 2822-2829

Maximal Sets of Hamilton Cycles in Complete Multipartite Graphs II

Sasha Jarrell and Chris Rodger

PRESENTATIONS

Walton County Board of County Commissioners

DeFuniak Spring, FL, February 26, 2019

“Walton Works-Expanding Workforce Training in Walton County, FL”

Northwest Florida State College Foundation Board Meeting

Northwest Florida State College, Niceville, FL, October 7, 2015

“Greater Articulation in the State of Florida”

FloridaLearns STEM Scholars Parent/Student Night

Freeport High School, Freeport, FL, March 5, 2015

“NWF State College’s STEM Programs”

Florida Department of Education’s Developmental Education Summit

Destin, FL, October 29, 2014

“Collegiate High Schools-Charter Versus Program”

Destin Chamber Meeting

Destin, FL, August 8, 2012

“Opportunities at Northwest Florida State College”

American Business Women’s Association Meeting

Fort Walton Beach, FL, June 5, 2012

“The Importance of Education”

Teacher Training Workshop and Curriculum Development-Okaloosa County School District

Northwest Florida State College, Niceville, FL, May 24, 2010

“Math for College Readiness”

(Invited Presenter) Department of Mathematics and Statistics Seminar

University of North Carolina Wilmington, Wilmington, NC, April 21, 2006

“A Few Open Problems in Graph Theory”

Pre-Conference Workshop, Florida Developmental Education Association, 29th Annual Conference

Orlando, FL, October 17-19, 2007

“I’m Not a Math Person. Neither am I!”

Thirty-Seventh Southeastern International Conference on Combinatorics, Graph Theory & Computing

Florida Atlantic University, Boca Raton, FL, March 6-10, 2006

“4-Cycle Decompositions of λK_{2m-F} ”

Textbook Review funded by the National Science Foundation for “Discrete Mathematics for K-8 Teachers” by Rosenstein and Debellis

Rutgers University, Piscataway, NJ, July 2005

Invited to test and evaluate textbook content

Joint MAA and AMS Meetings

Atlanta, GA, January 5-8, 2005

“Maximal Sets of Hamilton Cycles in Complete Multipartite Graphs”

(Invited Presenter) Teaching East Alabama Mathematics (10-day Workshop for Teachers)

Auburn University, Auburn, AL, July 2004

Coordinator for Critical Thinking Mathematics “Problem of the Day”

(Invited Presenter) DCI 2003 Combinatorial Design Theory

Rutgers University, Piscataway, NJ, July 13-18, 2003

“Maximal Sets of Hamilton Cycles”

Joint Meeting Southeastern Section MAA and SIAM SE Atlantic Section

Clemson University, Clemson, SC, March 21-22, 2003

“Maximal Sets of Hamilton Cycles”

SERVICE RECORD

Northwest Florida State College, Niceville, FL

- Lead of the Triumph grant proposal, 2018-2019
- Director of the President’s Leadership Academy, 2018-2019
- Board Member for the United Way of Okaloosa and Walton Counties, 2014-2017
- Member of the Executive Committee of the Economic Development Council of Okaloosa County, Florida, 2016
- Ex Officio Member of the Business Leadership Council, 2016
- Member of the Military Affairs Committee of the Niceville Chamber, 2016
- Member of the President’s Executive Cabinet, 2011-2017, 2019
- Chair of Curriculum Committee, 2011-2017, 2019
- Chair of Performance Funding Committee on Existing Models of Success, 2015
- Member of Performance Funding Committee, 2015
- Member of Banner Student Implementation Team, 2013-2016
- Co- Chair of Quality Enhancement Plan (QEP) Steering Committee, 2009-2010
- Co-Author of NWF State College’s QEP, “Teaching Academic Reading Strategies to Improve Student Learning”, 2010
- Chair of Institutional Research Committee, 2009-2011
- Chair of Calendar Committee, 2011-2017, 2019
- Member of the Assessment Committee, 2010
- Member of Student Success Committee, 2006-2017
- Member of Curriculum Committee, 2008-2010
- Member of Vice President of Instruction’s (VPI) Committee, 2008-2011
- Member of Administration Committee, 2008-2011
- Chair and Member of numerous search committees to include presidential searches

Coastal Carolina University

- Member of Curriculum Committee, 2005
- Developed three new discrete math courses: Coding Theory, Graph Theory, and Cryptography
- Aligned Master of Arts and Teaching admission requirements
- Member of the Search committee for Chair of Mathematics Department
- Advisor of Pi Mu Epsilon Honor Society, 2005-2006

Auburn University

- President of Auburn University Chapter of the Society for Industrial and Applied Mathematics, 2003
- President of Kappa Delta Pi-National Honor Society for the College of Education, 2000
- Member of Phi Kappa Phi-National Honor Society, 2000
- Participant in Intramural Sports-Women’s Softball Intramural Campus Champions, 2003

Non-Academic

- President of The Arc of Geneva County serving people with intellectual and developmental disabilities, 2018-2019
- Youth League softball and volleyball coach, 2018-2019
- Board Member for the United Way of Okaloosa and Walton Counties, 2014-2016
- Membership Coordinator for The Arc of Geneva County serving people with intellectual and developmental disabilities, 2009-2010
- Volunteer for Alabama State Special Olympics
 - Troy University, Troy, AL, 2007-2014
 - Auburn University, Auburn, AL, 2004-2006
 - The University of Alabama, Tuscaloosa, AL, 2002-2003
 - Alabama State University, Montgomery, AL, 2000-2001