

John Georgas

Curriculum Vitae

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Biographical Sketch

John Georgas is the Senior Vice Provost for Academic Operations at Northern Arizona University (NAU) in Flagstaff, Arizona, responsible for the strategic and administrative leadership of a broad portfolio of offices and functional areas that underpin academic operations and student success. His team consists of 10 direct reports and more than 240 full-time faculty and staff, with leadership oversight over the offices of University Advising, Office of the Registrar, NAU Online, Cline Library, Office of Undergraduate Research and Creative Activity, Academic Affairs Marketing, Academic Affairs Business Analysts, and the U.S. Air Force and U.S. Army Reserve Officers' Training Corps programs.

In prior roles, he served as vice provost, interim dean for the College of Engineering, Informatics, and Applied Sciences (now Steve Sanghi College of Engineering), the interim associate dean for the same, the associate director for Research and Graduate Programs for the School of Informatics, Computing, and Cyber Systems, the associate director for the Informatics and Computing program, and as the computer science program lead and associate chair for the department of Electrical Engineering and Computer Science.

Georgas is a tenured professor, with research interests that include software and architectural visualization, self-adaptive software systems, domain-specific architecture and architectural styles, software engineering pedagogy and learning, and pedagogies that support underrepresented learners. His work has been supported by various funding agencies, including the National Science Foundation and the National Institutes of Health, and appears in national and international venues. His teaching has spanned courses across undergraduate and graduate levels in computer science and software engineering, with a focus on introductory computer science and programming, software engineering, and software architecture and design.

A first-generation college graduate from an immigrant family, Georgas earned his bachelor's degree in computer science from California State Polytechnic University, Pomona, after beginning his studies as a community college student at Mt. San Jacinto College. He earned his master's and doctoral degrees in information and computer science from the University of California, Irvine. He is a member of the Association for Computing Machinery and the American Society for Engineering Education and is an alumnus of the Harvard Institute for Management and Leadership in Education.

Education

- 2008 **Ph.D.**, *University of California, Irvine, CA.*
Information and Computer Science
Dissertation: *Supporting Architecture- and Policy-Based Self-Adaptive Software Systems* (advisor: Richard N. Taylor)
- 2003 **M.S.**, *University of California, Irvine, CA.*
Information and Computer Science
- 2000 **B.S.**, *California State Polytechnic University, Pomona, CA.*
Computer Science, *summa cum laude*

Leadership Development

- 2022 Harvard Institute for Management and Leadership in Education
Harvard Graduate School of Education, Cambridge, MA
- 2019 Development for Deans and Academic Leaders
Council for Advancement and Support of Education, Boston, MA
- 2014–2015 University Leadership Program
Northern Arizona University, Flagstaff, AZ

Leadership

- 2020–present **Senior Vice Provost, Academic Operations (Vice Provost 2020–2022)**, *Office of the Provost, Northern Arizona University, Flagstaff, AZ.*

Duties include contributions to institutional strategy, policies, processes, initiatives, and risk management through close collaboration with academic and faculty senate leadership and leaders across all other divisions, including the Office of the President, enrollment management and marketing, budget, research and sponsored projects, facilities and campus operations, student affairs, and information technology as well as undergraduate and graduate student government organizations. Collaborating on behalf of the university with various external partners, including the Arizona Board of Regents, academic leaders across Arizona's universities, the Executive Committee for the Western Interstate Commission for Higher Education's Western Leadership Forum.

Functional oversight over student academic advising; registrar operations and centralized course scheduling for the institution; academic policy oversight, development, and implementation; instructional capacity management and classroom support funding; academic fee management; online operations and instructional design; library planning and operations; academic affairs marketing support; academic operations business process implementation and support; and student and family communications on matters requiring special attention on behalf of the Provost and President.

Particular highlights and accomplishments in this role include:

- Leading efforts to eliminate barriers to student progression that are codified in academic policies by reimagining and redeveloping institutional policies on course withdrawal, academic standing, and institutional excuses to offer students expanded opportunities for success and promote persistence. These policy changes contributed to an over 300 student reduction in full-term undergraduate student withdrawals per term and a near 4% increase in first-to-second year student retention.
- Overseeing a substantial expansion of undergraduate research and creative activity and growing participation to over 800 students in fall 2024, reflecting a near fivefold one-year increase. This was achieved through a multifaceted strategy that invested near \$500K in new student-facing programs as well as initiatives that directly support faculty participation and grow mentorship capacity.
- Contributing to institutional strategy by representing academic affairs on the President's Council on Pricing and Positioning and NAU's Strategic Enrollment Management steering committee, helping shape tuition- and fee-setting strategy and the *Access2Excellence* program as well as the recently launched *Realizing Attainment Impact through Strategic Enrollment* plan. Contributing through the Arizona Attainment Alliance steering committee, focused on building community college partnerships and streamlined academic pathways.
- Promoting equity-centered student success through work supported by the Bill & Melinda Gates Foundation that focused on the importance of mid-level leadership to institutional transformation. In collaboration with leaders across 23 diverse institutions, these efforts culminated in the 2024 publication of the *The Guide for Postsecondary Changemakers*.

- Directing efforts to increase student academic success by creating a new team of student development coordinators that offer intensive attention to academically vulnerable students, improving academic advisor retention and effectiveness by helping secure over \$1M in institutional investment for salaries better calibrated to market, creating an advising career ladder to promote talent retention, and launching a new centrally-funded *Class Learning Assistance* program to support faculty in deploying pedagogical best-practices for large-enrollment courses in the general studies core.
- Leading strategic efforts to integrate and advance applications of artificial intelligence (AI) in the academic enterprise, including collaborative work that led to the development of policy guidelines and learning resources for NAU faculty and students, the creation of the *Transformation through Artificial Intelligence in Learning* faculty grant program that expanded applications of AI in the classroom and benefitted over 900 students in the program's inaugural year, and cluster hire efforts to recruit faculty experts in the applications of AI across a breadth of disciplines.
- Overseeing strategic planning efforts to transform NAU Online, in collaboration with partners across NAU, Arizona State University, and University of Arizona, by assessing online education risks for Arizona's universities and adapting NAU Online's academic portfolio, enhancing the student experience, and adapting its organizational structure and business processes. Early outcomes from these efforts resulted in the disestablishment of over 40 low-enrolled online plans and the launch of a new online student success coaching team serving more than 2,200 online students in fall 2024.
- Successfully coordinating efforts to streamline the institution's academic fee model by replacing all undergraduate program and course fees with a tiered college fee model, subsequently coordinating academic unit allocations, and contributing to the budgeting of \$12M in annual college fee collections.
- Working collaboratively with academic deans to lead efforts aimed at reimagining the university's model for investing graduate teaching assistantships and tuition waivers, seeking to maximize the impact of investments in supporting key instructional needs, and operationalizing the reimagined model to allocate resources totaling \$6.8M across all college and academic units at NAU.
- Coordinating efforts to support faculty by establishing a new teaching professor faculty track by collaborating on the conceptualization of the new track, advocating for its creation, and overseeing faculty reappointment efforts for its operationalization and launch.
- Coordinating and leading a multi-year effort on assessing and selecting the institution's next learning management system platform through a broadly consultative effort rooted in shared governance, an effort initiated during summer 2021 and resulting in the successful deployment of Canvas in summer 2023.
- Overseeing the Center for International Education during the 2021-2022 academic year, with an annual budget of \$6M and 32 full-time staff, providing leadership for international educational partnerships and inbound and outbound student programs and developing a plan for reimagining the office's organizational structure to promote enrollment growth.
- Offering strategic and operational leadership during the COVID-19 pandemic in creating two new instruction modes, changing academic term calendars, and launching terms with online-only instructional periods; leading efforts in student communications regarding academic matters and data analyses and intervention efforts to mitigate learning loss.

2019–2020 **Dean (interim)**, *College of Engineering, Informatics, and Applied Sciences, Northern Arizona University, Flagstaff, AZ.*

Responsible for strategy and operations of the college, with an annual instructional budget of \$15M and over \$6M of annual research expenditures, offering nine undergraduate majors, six master's programs, and four doctoral programs and serving over 2,800 students. Consisting of over 110 faculty, the college was home to three departments, one school, and a research center: Applied Physics and Materials Science; Civil Engineering, Construction Management, Environmental Engineering; Mechanical Engineering; the School of Informatics, Computing and Cyber Systems; and the Center for Materials Interfaces in Research and Applications.

Degree offerings include ABET accredited bachelor's degrees in computer science, and civil, environmental, mechanical, computer, and electrical engineering; an American Council for Construction Education accredited degree in construction management; and degrees in applied computer science, informatics, and physics.

Supported by a team of eight direct reports, led strategic planning; budget and operations management; college and department- and school-level administration and shared governance; faculty and staff recruitment; faculty and staff evaluations and decisions on renewal, promotion, tenure, and dismissal; curricular offerings; student recruitment and retention; efforts to foster diversity, equity, inclusion, and justice; development, fundraising, and donor relations; and communications with internal and external stakeholders.

Particular highlights and accomplishments in this role include:

- Orchestrated the creation of a new strategic plan to accelerate the college's momentum by expanding interdisciplinary research and broadening access to its distinctive programs through a thematic focus on areas that advance human and environmental well-being.
- Supported the creation of an inclusive environment by building a partnership with faculty to design and develop the *Equal Partners in Inclusive Community* program, leveraging mutually-supportive community connections, strong mentorship relationships, and positive role models to support underrepresented students.
- Motivated and oversaw the development of multiple new academic programs to serve the needs of students not well-served by existing programs, including fully-online programs in *Electrical Engineering Technology* and *Cybersecurity*, and the in-person *Multidisciplinary Engineering* program.
- Led the development and implementation of programs to support faculty excellence in teaching and research: The college's *Pre-submission Proposal Review Program* offered faculty structured pre-submission peer review feedback while the *Peer Mentorship of Teaching Program* offered mentorship on pedagogical and course design best practices.
- Oversaw ABET reaccreditation of six programs in two separate commissions.
- Engaged in development efforts at the college level and in collaboration with the institution's comprehensive capital campaign and completed the college's first endowed professorship.

2018–2019 **Associate Dean (interim), Academic Affairs**, *College of Engineering, Informatics, and Applied Sciences, Northern Arizona University, Flagstaff, AZ.*

Contributed to the founding of the newly organized college through strategic planning, operations and budget management, faculty workload and instructional capacity oversight, and developing and implementing administrative structures, policies, and business processes.

Designed and launched the college's travel grant programs. Supervised all undergraduate and graduate curricula, including continual improvement processes related to the multiple ABET accredited programs in the college, managed academic policies and student issues, and chaired the college Curriculum and Assessment Committee. Contributed to the design and oversaw the development of three new doctoral programs in *Applied Physics and Materials Science*, *Civil and Environmental Engineering*, and *Mechanical Engineering*.

Served as the college-level liaison with other divisions, including Student Affairs, Enrollment Management, and University Advising and represented the college on university committees, including the Academic Associate Deans' Academy. Communicated with other internal and external stakeholders, students and their families, and alumni.

2016–2018 **Associate Director, Research and Graduate Programs, School of Informatics, Computing, and Cyber Systems, Northern Arizona University, Flagstaff, AZ.**

Led strategic and resource planning efforts in research development and graduate programming. Supervised graduate programs in informatics, computer science, and electrical engineering, including budgeting and operations, research development funding, curricula and assessment, recruitment and admissions, student issues, course scheduling, support staff, space usage, teaching and research assistantships, and the investment of funding for research development.

Led the design and oversaw the development of multiple new programs, including bachelor's and master's degrees in *Informatics* and a graduate certificate in *Data Science*. Led faculty recruitment efforts leading to seven successful tenured and tenure-track hires and led faculty evaluation processes and the development of the newly formed unit's research-intensive criteria for annual review and promotion. Represented the unit with internal and external stakeholders, donors, and the Advisory Council to develop joint research capacity and collaboration.

2014–2016 **Associate Director, Informatics and Computing Program, Northern Arizona University, Flagstaff, AZ.**

Contributed to the creation of the Informatics and Computing Program, a new academic unit and area of research at the institution, through a leadership role in the unit's organization, strategic and resource planning, budget management, operations, course planning and scheduling, staff hiring and evaluation, and space management—including the lead role in planning and coordinating the unit's occupancy of a new building. Managed faculty recruitment leading to four tenured and tenure-track hires and led faculty evaluation processes.

Served as the principal architect of the unit's new interdisciplinary doctoral program in *Informatics and Computing* and led efforts for its approval, curricular and coursework design, policy development, marketing and student recruitment, and admissions. Designed multiple courses in the core of the program, including research methods, professional communication, and proposal preparation. Represented the unit and interfaced with internal stakeholders as well as the community and external agencies. Contributed to planning for the successful merger of the Informatics and Computing Program with the department of Electrical Engineering and Computer Science.

2014–2015 **Associate Chair, Electrical Engineering and Computer Science, Northern Arizona University, Flagstaff, AZ.**

Led strategic and resource planning efforts for the computer science area in the joint Electrical Engineering and Computer Science department. Managed relationship with the Computer Science Department Advisory Committee. Supervised computer science budgets and operations, space usage, graduate teaching assistantships, and equipment purchases. Oversaw undergraduate and graduate academic programs and curricula in computer science, managed course scheduling, implemented academic policies, and assessed student petitions. Led continuous improvement processes in computer science curricula, including drafting the program's Accreditation Board for Engineering and Technology Interim Report and successfully implementing remedial actions that renewed accreditation. Oversaw and led computer science faculty meetings, interfaced with the Engineering and Professional Programs chairs group, and served as lead contact with university collaborators.

Academic

2020–present **Professor, with tenure**, *School of Informatics, Computing, and Cyber Systems, Northern Arizona University*, Flagstaff, AZ.

Continuing W.M. Keck Foundation-funded pedagogical research in introductory informatics teaching methods and increasing diversity and participation in informatics. Participating in professional service through manuscript reviews and institutional service through the Faculty Mentor program, various committees, such as the Alcohol and Other Drugs Council and the First Scholars Steering Committee, and searches, including the search for Dean of Students.

2014–2020 **Associate Professor, with tenure**, *School of Informatics, Computing, and Cyber Systems, Northern Arizona University*, Flagstaff, AZ.

Expanded pedagogical research efforts in design learning and initiated new work in increasing diversity and participation by focusing on key insights about the importance of research experiences, scientific identify formation, and value alignment to the recruitment and retention of diverse students. Secured funding through grants from the National Science Foundation (NSF) and the W.M. Keck Foundation and collaborated on securing National Institutes of Health funding. In partnership with Northern Arizona Healthcare, initiated work in healthcare informatics to support post-hospitalization patient care. Presented scholarly results in various venues, including the flagship *International Conference on Software Engineering*.

Continued teaching efforts for the computer science program and developed and taught two new courses—in software development methods and post-graduate career preparation—to support the newly created *Informatics and Computing* doctoral program. Continued and expanded my service to the professional community through manuscript reviews for leading journals, grant proposal reviews, and served as Editor-in-Chief for Association for Computing Machinery’s Special Interest Group on Software Engineering *Software Engineering Notes*. Served the institution by contributing to planning on the Informatics and Computing initiative, in central governing bodies, such as the University Graduate Committee and Academic Standards Committee, and through search processes, including the search for Provost and by chairing search committees for multiple tenured and tenure-track positions.

2008–2014 **Assistant Professor, tenure track**, *Electrical Engineering and Computer Science, Northern Arizona University*, Flagstaff, AZ.

Led research efforts in the design of self-adaptive software systems, socio-technical modeling, and pedagogical scholarship in design and software engineering learning. Secured support for this research and students through various grants, including funding from the NSF, and published scholarly results in conferences and journals.

Taught undergraduate courses in introductory computer science, programming, computer science ethics, and principles of programming languages. Developed and taught new courses in software engineering and software architecture at both undergraduate and graduate levels. Mentored capstone projects and advised undergraduate and graduate students in independent research work.

Served the professional community in program committees, grant review panels for the NSF, and IEEE and ACM journal reviews, including for *IEEE Transactions on Software Engineering* and *ACM Transactions on Software Engineering Management*. Engaged with institutional service through various curriculum, search, and university committees, including the University Curriculum Committee and the Liberal Studies Program Review Taskforce.

2001–2008 **Graduate Student Research/Teaching Assistant**, *Department of Informatics, University of California, Irvine, CA.*

Co-authored a National Science Foundation grant that funded my research in the design, implementation, and assessment of a novel approach for developing self-adaptive software systems. My work demonstrated improvements in software reuse and flexibility over other approaches by combining explicit software architecture models, rule-based expert systems, and real-time configuration management support. As lead instructor, taught software engineering and served as a teaching assistant for programming and project coursework in the computer science core curriculum. Supported the creation of foundational technologies for architecture-based modeling as a member of the Institute for Software Research.

Industry

2003–2004 **Associate Member of Technical Staff**, *Computer Systems Research Department, The Aerospace Corporation, El Segundo, CA.*

Redesigned and developed a grid-computing enabled version of the Satellite Orbital Analysis Program to enable high-performance satellite orbit analysis. Contributed to the design and development of a peer-to-peer video gathering, storage, and streaming system for use in operations management at the National Aeronautics and Space Administration's Western Launch and Test Range.

2002 **Member of Technical Staff**, *Mission Data System Group, Jet Propulsion Laboratory, Pasadena, CA.*

Designed and implemented software modeling extensions for the Mars Science Laboratory mission and developed systems-of-systems modeling support for the Consultative Committee for Space Data Systems to enable design decision traceability analysis across multiple space mission sub-systems.

Grants and Contracts

2018–2025 **Increasing Participation in Undergraduate Informatics Education and Research**, *W.M. Keck Foundation, Undergraduate Education Program, \$325,000.*

Lead PI, with co-PIs Christopher Doughty, Crystal Hepp, James Palmer, Kyle Winfree

2018–2023 **NAU RISE for Native American Students**, *National Institutes of Health, R25 Education Projects, \$2,645,697.*

Co-I, with PI Catherine Propper and co-Is Julie Baldwin, Robert Kellar, Jani Ingram, Priscilla Sanderson, Hendrik de Heer, Frank von Hippel, and Anita Antoninka

2016–2017 **Software Engineering for Improving Reuse and Enabling Runtime Dynamism in Unmanned Aircraft Systems**, *NAU Faculty Grants Program, \$14,962.*

Sole PI

2016–2018 **Shi'Hooghan: Home-Centered Health Care for Native American Patients**, *Northern Arizona Healthcare, \$21,962.*

Lead PI, with co-PI Eck Doerry

2013–2017 **Design Challenges and Stories: Integrating Reflective Design Learning in Computer Science**, *National Science Foundation, Division Of Undergraduate Education, \$187,195.*

Lead PI, with co-PI James Palmer

2012 **Shareview: Leveraging Mobile Devices for Social Rich Media Sharing**, *Arizona Technology Research Initiative Fund, \$39,652.*

Sole PI

- 2010–2012 **Supporting Continuous Awareness and Exploration of Social and Design Dependencies**, *National Science Foundation, Division of Computing and Communication Foundations, \$167,907.*
Sole PI at NAU; collaboration with Anita Sarma
- 2010–2011 **Software Engineering in Support of Sustainable Wind Turbine Energy Generation**, *NAU Faculty Grants Program, \$9,040.*
Sole PI
- 2010–2011 **Implementing the Global Learning Recommendations Initiative**, *NAU Center for International Education, \$8,000.*
co-PI, with co-PI Dieter Otte
- 2009–2010 **Robots that Change: Behavior-based Runtime Adaptation for Robotics**, *NAU Intramural Grants Program, \$7,948.*
Sole PI

Patents

- 2015 **Live streaming video sharing system and related methods**, *U.S. Patent 8,997,167*, Bliss, L., Perelstein, J.M., Georgas, J.C., Mullen, B.W., Carey, B.E., Dixon, W.J-S., Ellsworth, C.M., issued March 31, 2015.

Teaching

Northern Arizona University

- CS 122 Programming for Engineering and Science *Summer 2009, Summer 2010*
- CS 136 Computer Science II *Fall 2008, Spring 2009, Fall 2009, Spring 2010, Fall 2010, Spring 2011, Fall 2011, Fall 2012, Spring 2013, Fall 2013*
- CS 136L Computer Science II Lab *Fall 2009, Spring 2010, Fall 2010, Spring 2011, Fall 2011, Fall 2012, Spring 2013, Fall 2013*
- CS 301 Ethics in Computer Science *Fall 2008, Fall 2009, Fall 2010*
- CS 386 Software Engineering *Fall 2009, Fall 2010, Fall 2011, Spring 2012, Spring 2013, Spring 2014*
- CS 396 Principles of Programming Languages *Spring 2009, Spring 2010, Spring 2012*
- CS 440 Software Architecture *Fall 2008, Spring 2011, Fall 2013, Spring 2016*
- CS 476 Requirements Engineering *Fall 2012*
- CS 486C Capstone Experience *Spring 2009, Spring 2010, Spring 2011, Spring 2012, Spring 2013, Spring 2014, Spring 2015*
- CS 540 Advanced Software Architecture *Spring 2011, Fall 2013, Spring 2016*
- INF 502 Software Development Methodologies *Spring 2017, Spring 2018*
- INF 601 Professional And Career Development *Fall 2018*

University of California, Irvine

- ICS 52 Introduction to Software Engineering *Summer 2005, Summer 2006*

University of California, Irvine (Teaching Assistant)

- ICS 21 Introduction to Computer Science *Winter 2001, Fall 2001, Spring 2003*
- INF 43 Informatics Core III *Spring 2005*
- ICS 52 Introduction to Software Engineering *Fall 2003*
- ICS 125 Project in Software System Design *Fall 2002*

Mentorship

M.S. Graduate Student Research (NAU)

- 2021 Self-adaptive Software Systems *Sanders, Austin*

2011 Architectural Style for Wind Turbine Control Software *Middleton, Ryan*

Undergraduate Student Research (NAU)

2016–2017 Runtime Adaptivity for Unmanned Autonomous Aircraft *Melillo, Nicolas; Rayburn, Lucas*
2016 Design in the Computer Science Curriculum *Sanchez, Luke*
2014 Shi'Hooghan: Health Informatics *Batchelder, Ryan*
2012 Android Media Streaming *Carey, Bryce*
2011–2012 Behavior-based Self-Adaptive Software *Makino, Kyoko*
2010 Architecture-centric Socio-Technical Congruence *Baier, Stephen*
2010 Comparative Study of Robotic Architectures *Citron, Bernard*
2009 Self-Adaptive Robots in Urban Rescue Scenarios *Liszewski, Ben*
2009 Behavior-based Runtime Adaptation for Robotics *Herrmann, Ralf*
2009 Architectural Runtime Configuration Management *Worsley, Stephen*

Undergraduate Capstone Projects (NAU)

2015 Automatic Syllabification *Michael Albanese, Salvatore Bottiglieri, Trent Cooper, Drew McDaniel, and Adam Thomas*
2014 Money Clip Database Optimization *Draper, Toby; Gartner, Jordan; Hausmann, Justin; Sjursen, Ryan*
2013 Money Clip Mobile Localization *Kennedy, Blayne; Oyama, Kimberly; Rodhouse, Daren; Sasaki, Chihiro*
2013 Architectural Simulation *Austin, Mike; Phillips, Brandon; Zanut, Davis*
2012 Shareview: Media-rich Social Networking *Carey, Bryce; Dixon, Waylon; Ellsworth, Chad; Mullen, Britt*
2011 K-12 Bookmarking and Web Access System *Boyd, Mackenzie; Guice, Forrest; Hill, Justin*
2010 Athletic Training Room Simulator *Bearchell, Bryce; Eberhard, Carl; Johnson, David; Rimmer, Kyle*
2009 Matacies: Game-centric language learning *Dobransky, Dean; Flieger, Joe; Hudson, Travis; Lester, Richard*

Undergraduate Student Research (UCI)

2004 Architectural Runtime Configuration Management *Wastrodowski, Matthew*
2003 The Web as Middleware *Bichutskiy, Vadim; Do, Ngoc-Anh; Ho, Bach; Malani, Roshni*

Honors

2016 Innovation Award
Northern Arizona University, Flagstaff, AZ
2008 Software Engineering Educators Symposium Travel Award
2008 Software Engineering Educators Symposium, Atlanta, GA
2002–2004 Graduate Assistance in Areas of National Need
Information and Computer Sciences, University of California, Irvine
2000–2002 Dean's Fellowship
Information and Computer Sciences, University of California, Irvine

University Service

University Committees

2025–present Physical Campuses Planning Committee
2022–present First Scholars Steering Committee
2021–present President's Council on Pricing and Positioning

- 2021–present Faculty Mentor Program
- 2020–present Chatbot Steering Committee
 - 2022–2024 Strategic Enrollment Management Steering Committee
 - 2022–2024 Campus Master Plan Steering Committee
 - 2021 Co-chair, Teaching Track Taskforce
 - 2021 Chair, Academic Success, Learning, and Engagement Advisory Committee
- 2020–2023 Alcohol and Other Drugs Council
- 2020–2021 COVID-19 Information Center Committee
- 2020–2021 Fall 2020 Opening Advisory Group
- 2019–2020 Sustainable Campus Ecosystem Initiative Steering Committee
- 2019–2020 Academic Compliance Steering Committee
- 2018–2020 Presidential Fellowship Selection Committee
- 2018–2019 Academic Standards Committee
- 2018–2019 Academic Associate Deans Academy
- 2016–2018 University Graduate Committee
- 2013–2014 Informatics Initiative Advisory Committee
- 2010–2011 Liberal Studies Program Review Task Force
- 2009–2016 Hooper Undergraduate Research Award Program Committee
- 2008–2012 University Curriculum Committee

College Committees

- 2018–2020 Chair, College of Engineering, Informatics, and Applied Sciences Pre-submission Proposal Review Program
- 2018–2019 Chair, College of Engineering, Informatics, and Applied Sciences Peer Mentorship of Teaching Program
- 2018–2019 Chair, College of Engineering, Informatics, and Applied Sciences Travel Grant Program

Departmental Committees

- 2008–2019 Computer Science Curriculum Committee, Department of Electrical Engineering and Computer Science
- 2016–2018 Co-chair, Faculty Status Committee, School of Informatics, Computing, and Cyber Systems
- 2014–2016 Faculty Status Committee, Informatics and Computing Program
- 2009–2016 Annual Review Committee, Department of Electrical Engineering and Computer Science
- 2008–2016 Computer Science Graduate Affairs Committee, Department of Electrical Engineering and Computer Science
- 2008–2016 Computer Science ABET Committee, Department of Electrical Engineering and Computer Science

Search and Hiring Committees

- 2022, 2024 Vice President for Capital Planning and Campus Operations, Northern Arizona University
- 2020–2021 Associate Vice President and Dean of Students, Northern Arizona University
- 2019–2020 Dean, College of the Environment, Forestry, and Natural Sciences
 - 2019 (Search Chair) Graduate Program Coordinator, College of Engineering, Informatics, and Applied Sciences
- 2018–2019 Provost, Northern Arizona University
 - 2018 Associate Dean, Graduate College
 - 2018 Fiscal Operations Manager, College of Engineering, Informatics, and Applied Sciences
 - 2018 Administrative Director, College of Engineering, Informatics, and Applied Sciences

- 2017–2018 (Search Chair) Open Rank Professor (Microelectronics, Heterogeneous/Reconfigurable systems, Cyber-physical Systems, Data Science), School of Informatics, Computing, and Cyber Systems
- 2017–2018 (Search Chair) Open Rank Professor (Electrical Engineering) School of Informatics, Computing, and Cyber Systems
- 2016–2017 (Search Chair) Open Rank Professor (Cybersecurity, Big Data, Heterogeneous/Reconfigurable systems, Cyber-physical Systems), School of Informatics, Computing, and Cyber Systems
- 2016–2018 (Search Chair) Open Rank Professor (Health and Bioinformatics), School of Informatics, Computing, and Cyber Systems
- 2016–2017 (Search Chair) Graduate Program Coordinator, School of Informatics, Computing, and Cyber Systems
- 2016–2017 Associate Director for Business Operations, School of Informatics, Computing, and Cyber Systems
- 2016–2017 Administrative Associate, School of Informatics, Computing, and Cyber Systems
- 2015–2016 (Search Chair) Open Rank Professor (Cybersecurity, Big Data, Heterogeneous/Reconfigurable systems, Cyber-physical Systems), School of Informatics, Computing, and Cyber Systems
- 2015–2016 (Search Chair) Open Rank Professor, Informatics and Computing
- 2015–2016 Administrative Associate, Informatics and Computing Program
- 2014–2015 (Search Chair) Business Manager, Informatics and Computing Program
- 2014–2015 (Search Chair) Open Rank Professor, Informatics and Computing Program
- 2014–2015 (Search Chair) Assistant Professor (Geoinformatics), Informatics and Computing Program
- 2014–2015 (Search Chair) Assistant Professor, Informatics and Computing Program
- 2014–2015 Application Systems Analyst/Programmer, Informatics and Computing Program
- 2014–2015 Assistant Professor (Health Informatics), Informatics and Computing Program
- 2014–2015 Professor and Chair, Department of Electrical Engineering and Computer Science
- 2014–2015 Assistant Professor, Department of Electrical Engineering and Computer Science
- 2014–2015 Postdoctoral Scholar, Informatics and Computing Program
- 2013–2014 Open Rank Professor, Informatics and Computing Program
- 2012–2013 Assistant Professor, Department of Electrical Engineering and Computer Science
- 2011–2012 Lecturer, Department of Electrical Engineering and Computer Science
- 2010–2011 Lecturer, Department of Electrical Engineering and Computer Science

Professional and Community Involvement

Executive Committee

- 2023–present Executive Committee, Western Academic Leadership Forum, Western Interstate Commission for Higher Education

Board

- 2024–present Industrial Development Authority, Coconino County, Arizona
- 2022–present Executive Advisory Board, Coursedog

Editorial

- 2015–2019 Editor-in-Chief, ACM SIGSOFT Software Engineering Notes
- 2008–2017 Editor, Journal of Software Engineering for Robotics

Panel

- 2018, 2019 National Science Foundation, Improving Undergraduate STEM Education
- 2009 National Science Foundation, Computing and Communication Foundations

Program Committee

- 2012–2014, 2019, 2020, 2023–2025 IEEE Conference on Software Engineering Education and Training
- 2019–2021 IEEE International Conference on Space Mission Challenges for Information Technology
- 2016 Student Contest on Software Engineering (IEEE/ACM 38th International Conference on Software Engineering)
- 2012–2015 IARIA International Conference on Adaptive and Self-Adaptive Systems and Applications
- 2009, 2011 IEEE International Conference on Self-Adaptive and Self-Organizing Systems
- 2007, 2009 models@run.time
- 2007 IEEE/ACM International Conference on Automated Software Engineering (adjunct reviewer)

Book Review

- 2013 Software Engineering, 9th Edition, Sommerville
- 2011 Software Engineering for Self-Adaptive Systems 2
- 2008 Lecture Notes in Computer Science: Software Engineering for Self-Adaptive Systems

Journal Review

- 2009–present ACM Transactions on Software Engineering Management (distinguished reviewer)
- 2009–present Elsevier Journal of Systems and Software
- 2008–present Springer Journal of Software and Systems Modeling
- 2007–present IEEE Transactions on Software Engineering
- 2014 Springer Computing
- 2013 IEEE Transactions on Dependable and Secure Computing
- 2013 Elsevier Information Processing Letters
- 2010 IEEE Transactions on Services Computing
- 2009 Springer Software Engineering for Self-Adaptive Systems
- 2008 Wiley Software: Practice and Experience

Organizing Committee

- 2005 Institute for Software Research Graduate Student Research Forum (co-chair)
- 2003 Ground Systems Architecture Workshop: Architecture-Centric Evolution of Software Intensive Systems session (co-chair)

Student Volunteer

- 2004 ACM Foundations of Software Engineering Conference
- 2003, 2004 Institute for Software Research Annual Research Forum

Professional Affiliations

- 2011–present American Society for Engineering Education
- 2008–present Association for Computing Machinery
- 2008–present Association for Computing Machinery Special Interest Group on Software Engineering
- 2008–present IEEE Robotics and Automation Society Technical Committee on Software Engineering for Robotics and Automation
- 2002–present Institute for Software Research, University of California, Irvine

Publications

Journal

- J2 **Georgas, J.C.**, van der Hoek, A., and Taylor, R.N. Using Architectural Models at Runtime to Manage and Visualize Runtime Adaptation. *IEEE Computer*, 42(10):52-60, 2009.
- J1 **Georgas, J.C.**, Dashofy, E.M., and Taylor, R.N. Architecture-Centric Development: A Different Approach to Software Engineering. *ACM Crossroads*, 12(4):6-6, 2006.

Book Chapter

- BC1 **Georgas, J.C.** and Taylor, R.N. Policy-Based Architectural Adaptation Management: Robotics Domain Case Studies. In *Software Engineering for Self-Adaptive Systems*, Cheng, B.H.C., et al. eds. 5525/2009, p. 89-108, Lecture Notes in Computer Science, Springer-Verlag, 2009.

Conference

- C17 **Georgas, J.C.**, Palmer, J.D., and McCormick, M.J. Supporting Software Architecture Learning Using Runtime Visualization. In *Proceedings of the 29th IEEE Conference on Software Engineering Education and Training (CSEE&T 2016)*, Dallas, TX, USA, April 5-6, 2016.
- C16 Wilkins, T.V. and **Georgas, J.C.** Drawing Insight from Student Perceptions of Reflective Design Learning. In *Proceedings of the 37th International Conference on Software Engineering (ICSE 2015)*, Florence, Italy, May 20-22, 2015.
- C15 **Georgas, J.C.** Supporting Software Architectural Style Education Using Active Learning and Role-playing. In *Proceedings of the 120th American Society for Engineering Education Annual Conference & Exposition (ASEE 2013)*, Atlanta, GA, USA, June 23-26, 2013.
- C14 **Georgas, J.C.** Toward Infusing Modular and Reflective Design Learning throughout the Curriculum. In *Proceedings of the 26th IEEE-CS Conference on Software Engineering Education and Training (CSEE&T 2013)*, San Francisco, California, May 19-21, 2013.
- C13 **Georgas, J.C.** Teams Battling Teams: Introducing Software Engineering Education in the First-Year with RoboCode. In *Proceedings of the 118th American Society for Engineering Education Annual Conference & Exposition (ASEE 2011)*, Vancouver, BC, Canada, June 26-29, 2011.
- C12 **Georgas, J.C.** Software Development as Service to the Student Community: An Experiential and High Student Involvement Approach to Software Engineering Education. In *Proceedings of the 24th IEEE-CS Conference on Software Engineering Education and Training (CSEE&T 2011)*, Honolulu, Hawaii, May 22-24, 2011.
- C11 **Georgas, J.C.** and Sarma, A. STCML: An Extensible XML-based Language for Socio-Technical Modeling. In *Proceedings of the 4th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE 2011)*, Honolulu, Hawaii, May 21, 2011.
- C10 Sarma, A. and **Georgas, J.C.** Architectural Congruence: Toward Exploring the Software Development Process Through an Architectural Perspective. In *Proceedings of The 2nd International Workshop on Socio-Technical Congruence (STC'09)*, Vancouver, Canada, 2009.
- C9 **Georgas, J.C.** and Taylor, R.N. Policy-Based Self-Adaptive Architectures: A Feasibility Study in the Robotics Domain. In *Proceedings of the 2008 ACM/IEEE International Workshop on Software Engineering for Adaptive and Self-Managing Systems (SEAMS 2008)*, Leipzig, Germany, May 12-13, 2008.
- C8 **Georgas, J.C.** and Taylor, R.N. An Architectural Style Perspective on Dynamic Robotic Architectures. In *Proceedings of the IEEE Second International Workshop on Software Development and Integration in Robotics (SDIR 2007)*, Rome, Italy, April 14, 2007.

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- C6 **Georgas, J.C.** Knowledge-Based Architectural Adaptation Management for Self-Adaptive Systems. In *Proceedings of the 27th International Conference on Software Engineering Doctoral Symposium*, St. Louis, MO, May 15 - 21, 2005.
- C5 **Georgas, J.C.**, van der Hoek, A., and Taylor, R.N. Architectural Runtime Configuration Management in Support of Dependable Self-Adaptive Software. In *Proceedings of ACM SIGSOFT Workshop on Architecting Dependable Systems (WADS 2005)*, St. Louis, MO, May 17, 2005.
- C4 **Georgas, J.C.**, Gorlick, M.M., and Taylor, R.N. Raging Incrementalism: Harnessing Change with Open-Source Software. In *Proceedings of ACM SIGSOFT Workshop on Open Source Software Engineering (5-WOSSE)*, St. Louis, MO, May 17, 2005.
- C3 Gorlick, M.M and **Georgas, J.C.** A Scalable Open-Source Digital Video System for Launch Range Operations. In *Proceedings of Ground Systems Architectures Workshop (GSAW 2005)*, Manhattan Beach, CA, March 1-3, 2005.
- C2 **Georgas, J.C.** and Taylor, R.N. Towards a Knowledge-Based Approach to Architectural Adaptation Management. In *Proceedings of ACM SIGSOFT Workshop on Self-Managed Systems (WOSS 2004)*, Newport Beach, CA, October 31 - November 1, 2004.
- C1 **Georgas, J.C.** and Taylor, R.N. Supporting an Architecture-based Approach to Systems Modeling. In *Proceedings of Ground Systems Architectures Workshop (GSAW 2003)*, Manhattan Beach, CA, March 6, 2003.

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- DT **Georgas, J.C.** Supporting Architecture- and Policy-Based Self-Adaptive Software Systems. *Ph.D. thesis*, University of California, Irvine, 2008.

Presentations

- P17 **Georgas, J.C.**, Artificial intelligence and higher education, *Dorrance Scholarships Summer Bridge Program*, July 30, 2024
- P16 Amick, M., **Georgas, J.C.**, Holbrook, D., Leshinskie, E., Leugers, L. Arizona OER Leader Panel, *2024 Arizona Regional OER Conference*, March 1, 2024.
- P15 **Georgas, J.C.** and Drollinger, Z. Supporting Equitable Postsecondary Value Through Integrated Academic Operations, *American Association of State Colleges and Universities*, Webinar, October 13, 2022.
- P14 **Georgas, J.C.** Anatomy of an App, *boundaryless@NAU*, Flagstaff, AZ, April 18, 2019.
- P13 Doerry, E., **Georgas, J.C.**, Beckett, C., and Ferguson, T. Shi'Hooghan: A shared resource for health care information, *THRIVE Poster Session*, Flagstaff, AZ, April 7, 2017.
- P12 **Georgas, J.C.** Design Challenges and Stories: Integrating Reflective Design Learning in Computer Science, *NSF Showcase, Special Interest Group in Computer Science Education (SIGCSE) Technical Symposium*, Seattle, WA, March 9, 2017.
- P11 Doerry, E. and **Georgas, J.C.** Shi'Hooghan, *THRIVE Steering Committee*, Flagstaff, AZ, January 21, 2016.
- P10 **Georgas, J.C.** Shi'Hooghan: Home-centered Follow-up Care for Rural Patients, *Biomedical Innovations*, Flagstaff, AZ, September 30, 2014.
- P9 **Georgas, J.C.** Architecting Social: Supporting the Exploration of Socio-Technical Dependencies through an Architectural Lens, *Research Forum, Institute for Software Research, University of California*, Irvine, May 18, 2012.

- P8 **Georgas, J.C.** Supporting Architecture- and Policy-based Self-Adaptive Software Systems, *Northern Arizona University Electrical Engineering Seminar Series*, January 23, 2009.
- P7 **Georgas, J.C.** REpresentational State Transfer (REST) and ARRESTED, *Northrop Grumman*, June 28, 2005.
- P6 **Georgas, J.C.** Knowledge-based Architectural Adaptation Management, *Northrop Grumman*, June 28, 2005.
- P5 **Georgas, J.C.** Knowledge-Based Architectural Adaptation Management, *poster presentation at SIGSOFT 2004/FSE-12 Student Research Forum*, November 2, 2004.
- P4 **Georgas, J.C.** Architectural, Development Lifecycle, and Programmatic Considerations of Hyperexponential Change, *The Aerospace Corporation*, September 15, 2004.
- P3 **Georgas, J.C.** Architecture- and Knowledge-Based Self-Adaptive Software, *poster presentation at Institute for Software Research 2004 Research Forum*, June 8, 2004.
- P2 **Georgas, J.C.** Autonomous Self-Adaptive Software: Architecture-based Tools, Techniques, and Methods, presented at *Seminar on Programming Paradigms, Chapman University*, May 6, 2004.
- P1 **Georgas, J.C.** Recommendations for Architecture-Centric Software Supporting Self-Adaptive Behavior, presented at *Ground Systems Architectures Workshop (GSAW 2003)*, March 5, 2003.