John Georgas

Curriculum Vitae (January 2026)

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Biographical Sketch

John Georgas serves as the Senior Vice Provost at Northern Arizona University (NAU) in Flagstaff, Arizona, and is responsible for the strategic and operational leadership of the academic operations portfolio that encompasses the offices of Graduate and Professional Studies, Cline Library, University Advising, Office of the Registrar, 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 at NAU, 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 Greek family, Georgas started as a community college student at Mt. San Jacinto College before earning his bachelor's degree in computer science from California State Polytechnic University, Pomona. He then earned his master's and doctoral degrees in information and computer science from the University of California, Irvine. He serves as chair of the Executive Committee for the Western Interstate Commission for Higher Education's Western Leadership Forum, 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 and the UC Berkeley Executive Leadership Academy.

Education

2008 **Ph.D.**, *University of California*, Irvine, CA.
Information and Computer Science
Dissertation: *Supporting Architecture- and Policy-Based Self-Adaptive Software Systems*

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

2025 UC Berkeley Executive Leadership Academy
UC Berkeley Goldman School of Public Policy Center for Studies in Higher Education, Berkeley, CA

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 Positions

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

Leading a team of 10 direct reports and 380 full- and part-time staff and faculty with a combined budget of $18M and overseeing the offices of Graduate and Professional Studies, Cline Library, University Advising, Office of the Registrar, 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.

Responsibilities include leading and contributing to institutional strategy and strategic initiatives, budget, risk, and space management, policies, and business processes—working in close collaboration with academic and Faculty Senate leadership, undergraduate and graduate student government organizations, and senior leaders across all other divisions, including the Office of the President, enrollment management and marketing, university budget, research and sponsored projects, facilities and campus operations, student affairs, and information technology. Collaborating on behalf of the university with various external partners, including the Arizona Board of Regents, academic leaders across Arizona's universities, and the Western Interstate Commission for Higher Education's Western Leadership Forum.

Directly overseeing graduate studies and student support; graduate teaching and research assistantship and tuition waiver investments totaling $8M of institutional funding; library strategic planning and personnel management; student academic advising; registrar operations and centralized course scheduling; academic policy development and operationalization; instructional capacity management and classroom support funding; academic fees; academic affairs marketing; 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 persistence by reimagining institutional policies on course withdrawal, academic standing, and institutional excuses. These changes contributed to a near 4% increase in first-to-second year student retention and a reduction in full-term withdrawals by over 300 undergraduate student each term.
- Partnering with other university leaders in the President's Council on Pricing and Positioning to increase student access by reshaping NAU's tuition- and fee-setting strategy, including by offering free tuition to Arizona students from low-income families and federally-recognized Native American tribes—changes that helped increase undergraduate enrollment by 7% for Arizona residents and 47% for Native Americans.
- 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 and resulting in the successful deployment of Canvas in for all instructional activities across the institution.

- Leading strategic efforts to advance applications of artificial intelligence (AI) in the academic enterprise, including by launching the Institute for Advancing Applications of Artificial Intelligence, leading collaborative work to develop institution-wide AI policy guidelines and learning resources, the creation of the *Transformation through Artificial Intelligence in Learning* faculty grant program that expanded applications of AI in the classroom and reached 900 students in the program's inaugural year, and by chairing cluster hire efforts to recruit faculty with expertise in applying AI across a wide breadth of disciplines.
- Initiating a substantial expansion of undergraduate research and creative activity, growing participation to over 800 students in fall 2024, which reflects a near fivefold one-year increase. This was accomplished through a multifaceted strategy that invested near $500K in new student-facing programs as well as initiatives that are aimed at directly supporting faculty participation and growing mentorship capacity.
- Directing concerted efforts to support student academic momentum, including by creating a new team of student development coordinators that offer intensive attention to over 600 academically vulnerable students each year, promoting faculty success by launching a new program to support the adoption of pedagogical best-practices in 190 large-enrollment courses in the general studies core, and dramatically improving academic advisor retention and effectiveness by leading efforts to develop an advising career ladder. These initiatives contributed to a near 4% increase in first-to-second year student retention.
- Orchestrating efforts to support faculty retention and success by establishing a new teaching professor faculty track that focuses on teaching excellence, collaborating on the conceptualization of the new track, advocating for its creation, and overseeing 230 faculty reappointments for its operationalization and launch.
- Directing strategic planning efforts to transform NAU Online, in collaboration with partners across NAU, Arizona State University, University of Arizona, and the Arizona Board of Regents. This work assessed online education risks for Arizona's universities and transformed NAU Online's academic portfolio and organization to enhance the student experience. Early outcomes from these efforts resulted in the disestablishment of 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.
- 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 changes in investments totaling $6.8M across seven colleges and 30 academic units.
- Promoting equity-centered student success in partnership with the Bill & Melinda Gates Foundation through work that focuses on the importance of mid-level leadership to institutional transformation. In collaboration with leaders across 23 diverse institutions across the nation, these efforts culminated in the 2024 publication of the *The Guide for Postsecondary Changemakers*.
- 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 funding allocations, and contributing to the budgeting of $12M in annual college fee collections.
- Offering strategic and operational leadership during the crisis of the COVID-19 pandemic, including by leading efforts to develop and institute two new instructional modes, changing the academic term calendar, launching online-only instructional periods, orchestrating student communications, and creating data analyses and intervention efforts to mitigate learning loss.
- 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.

2019–2020 **Dean (interim)**, *College of Engineering, Informatics, and Applied Sciences (now Steve Sanghi College of Engineering), 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.

Graduate degree offerings included four doctoral programs in informatics and computing, mechanical engineering and bioengineering, civil and environmental engineering, and applied physical and materials science. At the undergraduate level, offerings included 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 engagement; 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 inclusive excellence; 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 an in-person *Multidisciplinary Engineering* program that supports a broad program of study across engineering disciplines.
- 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 on their extramural funding proposals while the *Peer Mentorship of Teaching Program* offered mentorship on pedagogical and course design best practices to support teaching excellence.
- Oversaw the successful ABET reaccreditation of six programs across two separate commissions, coordinating internal efforts across college departments and leading college-level communications with program evaluators.
- Engaged in development efforts at the college level and in alignment with the institution's comprehensive capital campaign, completing the college's inaugural endowed professorship gift to support computer science and cybersecurity research.

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

Key responsibilities included college-level leadership and strategic planning, curriculum development and course schedule management, academic policy development and oversight, student support and success, and faculty recruitment and support. 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, offering nine undergraduate majors, six master's programs, and four doctoral programs and serving over 2,800 students.

Particular highlights and accomplishments in this role include:

- Contributed to the formation of this newly-organized college through efforts in strategic planning, macro and micro budget requests related to multiple initiatives, college-level policy development, and oversight of faculty workload and course scheduling.
- Coordinated and directed efforts to expand the college's structure by integrating two new administrative units into the college: the newly-formed Applied Physics and Materials Science department, and the Center for Materials Interfaces in Research and Applications.
- Directed the design, development, and launch of three new doctoral programs in *Applied Physics and Materials Science*, *Civil and Environmental Engineering*, and *Mechanical Engineering*, creating NAU's first college to home doctoral programs across all of its departments.
- Orchestrated college-wide processes related to ABET accreditation and continual improvement and the preparations for reaccrediting six programs across two commissions.
- Supported faculty development efforts by designing and launching the college's faculty travel grant program.

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, space utilization, teaching and research assistantships, and the investment of research development funding.

Particular highlights and accomplishments in this role include:

- Catalyzed the design and development of multiple new curricular programs, including bachelor's and master's degrees in *Informatics* and a graduate certificate in *Data Science* that expanded on collaborations across academic units.
- Led faculty recruitment efforts to substantially expand the research strength and breadth of the academic unit, which led to the successful recruitment of seven tenured and tenure-track faculty positions across multiple informatics areas.
- Organized space design, planning, and allocation efforts for a 45,000 ft^2 and \$8M budget project to create a new building for instructional and research operations for the School of Informatics, Computing, and Cyber Systems.
- Authored and coordinated the launch of the newly-formed unit's research-intensive criteria for faculty annual review and promotion, and directed faculty evaluation processes.

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

Collaborated toward the creation of the Informatics and Computing Program—a new academic unit and thematic area of research at the institution—through a leadership role in the unit's organization, efforts in strategic and resource planning, budget management, administrative operations, course planning and scheduling, staff hiring and evaluation, and space management. Represented the unit and interfaced with internal stakeholders as well as the community and external agencies.

Particular highlights and accomplishments in this role include:

- Architected and developed a new interdisciplinary doctoral program in *Informatics and Computing*, with emphases in computer science and cyber systems, ecological and environmental informatics, and health and bioinformatics, and led efforts for the program's approval, curricular and coursework design, policy development, marketing and student recruitment, and admissions.
- Led efforts to expand the instructional and research impact of the Informatics and Computing Program by collaborating with college- and university-level leaders to successfully merge with the department of Electrical Engineering and Computer Science, creating the School of Informatics, Computing, and Cyber Systems.
- Led inaugural faculty recruitment efforts to create and expand the academic unit, leading to the successful recruitment of four tenured and tenure-track hires.
- Designed multiple new courses for the core curriculum of the *Informatics and Computing* program, including courses in informatics research methods, professional communication, and extramural funding proposal preparation.

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 Positions

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

Continuing pedagogical research in introductory informatics teaching methods to increase student 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 leadership 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 Positions

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.

Funded 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

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; Zanot, 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

Community and Professional Involvement

Executive Committee

2023–present Executive Committee (chair, 2025–present), 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–present 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

University Service

Executive Leadership

2025–present Physical Campuses Planning Committee

2021–present President's Council on Pricing and Positioning

2020–present Enterprise Risk Management Oversight Committee

2022–2024 Strategic Enrollment Management Steering Committee

2022–2024 Campus Master Plan Steering Committee

University Committees

2022–present First Scholars Steering Committee

2021–present Faculty Mentor Program

2020–present Chatbot 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

2024–2025 (Search Chair) Artificial Intelligence Assistant Professor faculty cluster hire, Northern Arizona University

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 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.

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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.

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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.

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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.

C7 Dashofy, E.M., Asuncion, H.U., Hendrickson, S.A., Suryanarayana, G., **Georgas, J.C.**, and Taylor, R.N. ArchStudio 4: An Architecture-Based Meta-Modeling Environment. In *29th International Conference on Software Engineering (ICSE 2007 Companion)*, Minneapolis, MN, May 20 - 26, 2007.

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.

Thesis

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

Presentations

P18 Copeland-Glenn, L., Hayes, T., **Georgas. J.C.**, From Pathways to Highways: The 2NAU Foundation for Growing Postsecondary Attainment, *2025 WICHE Academic Partnerships Annual Meeting*, April 23-25, 2025.

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.