

John C. Georgas

Curriculum Vitae

School of Informatics, Computing, and Cyber Systems
College of Engineering, Informatics, and Applied Sciences

Northern Arizona University
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Education

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

Research Interests

Software engineering and architecture, self-adaptive software systems, pedagogies for underrepresented students, healthcare-supportive technologies, software and architectural visualization, social aspects of software engineering, architectural description languages, architectural styles.

Professional Appointments

Administrative

- 2020–present **Vice Provost, Academic Operations**, *Northern Arizona University*, Flagstaff, AZ.
Office of the Provost
- 2019–2020 **Interim Dean**, *Northern Arizona University*, Flagstaff, AZ.
College of Engineering, Informatics, and Applied Sciences
- 2018–2019 **Interim Associate Dean, Academic Affairs**, *Northern Arizona University*, Flagstaff, AZ.
College of Engineering, Informatics, and Applied Sciences
- 2016–2018 **Associate Director, Research and Graduate Programs**, *Northern Arizona University*, Flagstaff, AZ.
School of Informatics, Computing, and Cyber Systems (SICCS)
- 2014–2016 **Associate Director**, *Northern Arizona University*, Flagstaff, AZ.
Informatics and Computing (now a part of SICCS)

2014–2015 **Assistant Chair**, *Northern Arizona University*, Flagstaff, AZ.
Electrical Engineering and Computer Science (now a part of SICCS)

Academic

2020–present **Professor**, *Northern Arizona University*, Flagstaff, AZ.
School of Informatics, Computing, and Cyber Systems (SICCS)

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

2008–2014 **Assistant Professor**, *Northern Arizona University*, Flagstaff, AZ.
Electrical Engineering and Computer Science (now a part of SICCS)

2008–2010 **Instructor (part-time; online)**, *Walden University*, Minneapolis, MN.
NTU College of Engineering and Applied Science

2001–2008 **Graduate Student Researcher**, *University of California*, Irvine, CA.
Institute for Software Research

Industry

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

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

Grants and Contracts

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

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

2018–2021 **Increasing Participation in Undergraduate Informatics Education and Research**, *W.M. Keck Foundation*, **\$325,000**.

Lead PI, with co-PIs Christopher Doughty (NAU), Crystal Hepp (NAU), James Palmer (NAU)

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 (NAU)

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

Lead PI, with co-PI James Palmer (NAU)

- 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*, **\$167,907**.
Sole PI at NAU; collaboration with Anita Sarma (UNL)
- 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**, *Northern Arizona University Center for International Education*, **\$8,000**.
co-PI, with co-PI Dieter Otte (NAU)
- 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.

Honors

- 2016 Innovation Award
Northern Arizona University, Flagstaff, AZ
- 2014–2015 University Leadership Program
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

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	<i>Fall 2008, Fall 2009, Fall 2010</i>
CS 386	Software Engineering	<i>Fall 2009, Fall 2010, Fall 2011, Spring 2012, Spring 2013, Spring 2014</i>
CS 396	Principles of Programming Languages	<i>Spring 2009, Spring 2010, Spring 2012</i>
CS 440	Software Architecture	<i>Fall 2008, Spring 2011, Fall 2013, Spring 2016</i>
CS 476	Requirements Engineering	<i>Fall 2012</i>
CS 486C	Capstone Experience	<i>Spring 2009, Spring 2010, Spring 2011, Spring 2012, Spring 2013, Spring 2014, Spring 2015</i>
CS 540	Advanced Software Architecture	<i>Spring 2011, Fall 2013, Spring 2016</i>
INF 502	Software Development Methodologies	<i>Spring 2017, Spring 2018</i>
INF 601	Professional And Career Development	<i>Fall 2018</i>

University of California, Irvine

ICS 52	Introduction to Software Engineering	<i>Summer 2005, Summer 2006</i>
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University of California, Irvine (Teaching Assistant)

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

Mentoring

Ph.D. Graduate Student Research (NAU)

2021 (expected)	Self-adaptive Software Systems	<i>Sanders, Austin</i>
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M.S. Graduate Student Research (NAU)

2011	Architectural Style for Wind Turbine Control Software	<i>Middleton, Ryan</i>
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Undergraduate Student Research (NAU)

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

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*

University Service

University Committees

- 2019–present Academic Compliance Steering Committee
- 2018–present 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–present Chair, CEIAS Pre-submission Proposal Review Program
- 2018–2019 Chair, CEIAS Peer Mentorship of Teaching Program
- 2018–2019 Chair, CEIAS Travel Grant Program

Departmental Committees

- 2008–present 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

- 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 Service

Editor

- 2015–2019 Editor-in-Chief, ACM SIGSOFT Software Engineering Notes

Editorial Board

- 2008–2017 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

- 2019 IEEE International Conference on Space Mission Challenges for Information Technology
- 2012–2014, 2019–2020 IEEE Conference on Software Engineering Education and Training
- 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

Book Chapter Review

- 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 (ACM)
2008–present ACM 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.
- 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

- 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.