

# Michael A. Grady

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## PROFESSIONAL EMPLOYMENT

- 2008 – present Executive Program Officer for Cyberinfrastructure, Office of the Chief Information Officer, University of Illinois at Urbana-Champaign. Lead efforts of the Office of the Chief Information Officer to understand the evolving cyberinfrastructure (CI) needs of campus researchers and how those needs can best be met. Identify, build, participate in, or help lead collaborations with partners both within and external to the campus to create resources, initiatives and strategies to meet the CI needs of the campus, including computation, storage, data management and planning, collaboration environments, expertise and support, advanced networking capabilities, and federated identity. Participate in external organizations such as InCommon, Internet2, CIC (<http://www.cic.net>) task forces, XSEDE Campus Champions, etc.
- 2003 - 2008 Senior Technology Architect and Strategist, Office of the Chief Information Officer, University of Illinois at Urbana-Champaign. Coordinate efforts of the Office of the Chief Information Officer to identify emerging information technologies that match evolving user and strategic needs. Lead the Architecture Planning Team in developing recommended architecture road maps, strategies and standards in conjunction with IT leadership, and facilitate the progression of key technologies on campus, working closely with faculty and information technology leaders. Participate actively in regional and national IT organizations and efforts.
- 2002 - 2005 Manager, Integration and Software Engineering Group, Campus Information Technologies and Educational Services (CITES), University of Illinois at Urbana-Champaign. Manage the Integration and Software Engineering (ISE) group within CITES, consisting of 5 full-time staff. Prepare budgets, conduct staff evaluations, assign and align the resources of the group with the current and future development priorities of CITES and the campus. Manage projects and services, and serve as a middleware architect and developer – directory services, authentication, authorization, messaging, etc.
- 2001 - 2002 Senior Research Programmer and Group Lead, Software Development Group, Computing and Communications Services Office (CCSO), University of Illinois at Urbana-Champaign. Coordinate the project activities of the Software Development Group. Develop a directory services infrastructure for the campus, with a focus on LDAP-based directories, and consult with and participate in University-wide efforts for directory services, authentication, and authorization. Provide service management, maintenance, and development on various web-based information services, web robot and search engine, and other applications as assigned.
- 1994 - Senior Research Programmer, Computing and Communications Services Office

- 2001 (CCSO), University of Illinois at Urbana-Champaign. Design, program, implement , and manage web-based applications. Develop LDAP-based directory services. Install and administer Web, Domino/Notes, and LDAP servers. Develop and manage a campus-wide web robot and search engine. Design the architecture for the deployment of Lotus Notes within the University, and develop Lotus Notes applications for instructional support. Help establish and manage the primary campus web presence (webmaster). Provide system administration on Unix-based web, LDAP, and Notes servers.
- 1986 - Research Programmer, Computing and Communications Services Office (CCSO),  
1994 University of Illinois at Urbana-Champaign. Design, program, implement, and manage campus-wide information systems (e.g. Gopher, ConQuest). Obtain, install, manage and support graphics software site licenses, including Mentor Graphics and NCAR Graphics. Provide walk-in and phone user systems consulting on all mainframe-based software. Design, develop, and manage computer graphics and image processing software, and provide user support and consulting on its use. Work with individual researchers with image processing needs.
- 1978 - Project Manager, Administrative Information Systems Development, University of  
1986 Illinois. Manage the design, development and maintenance of University-wide administrative systems, including financial accounting, property accounting, and budget software. Direct teams of programmers in the design, programming, testing, deployment, and maintenance of these system. Manage and develop business reporting from administrative data systems.

## **EDUCATION**

University of Illinois at Urbana-Champaign, Mathematics and Computer Science, B.S., 1976.

## **SYNERGISTIC ACTIVITIES**

Participating in a multi-institutional team that has designed, developed and deployed a Data Management Plan (DMP) online tool (tool: <https://dmp.cdlib.org> , team: <http://www.cdlib.org/services/uc3/datamanagement/dmpo.html> ) for researchers to use to create a DMP for grant proposals, 2011 - present.

Co-chair of the CIC ( <http://www.cic.net> ) Identity Management Task Force, helping to lead CIC-wide efforts in leveraging federated identity ( <http://www.cic.net/Home/Projects/Technology/IdMgmt> ), 2008 – present.

InCommon Executive and Administrator for the University of Illinois at Urbana-Champaign, 2008 – present. This includes having written the Participant Operational Practices (POP) document for the campus, as well as an overall document describing identity management at the University of Illinois at Urbana-Champaign.

Installed, configured and ran the University of Illinois at Urbana-Champaign Shibboleth Identity Provider service from 2008 – 2010.

Co-project leader of the effort to adapt and deploy MONK, a toolset that enables “literary research through the discovery, exploration, and visualization of patterns” across a body of digitized texts, for federated access to all faculty, staff and students at CIC institutions ( <https://monk.library.illinois.edu/cic/public/> ), 2009 - 2010. This included installing, modifying, configuring, and running a CIC-focused Discovery Service.

Co-project leader, adapt and deploy CICme (CIC Mobile Environment, <http://www.cic.net/Home/CICme.aspx> ), a SharePoint-based collaboration environment, for federated access to all members of CIC committees, groups, and taskforces, 2008 - 2009.

## SELECTED PUBLICATIONS AND PRESENTATIONS

*Leveraging Cloud Services and Social Identities for Researchers: Solutions, Distractions, or Dangers?*, <http://events.internet2.edu/2011/spring-mm/agenda.cfm?go=session&id=10001707&event=1035> , Corn, M., Grady, M., Hedberg, R., Hubing, C., Welch, V., presentation at Spring 2011 Internet2 Member Meeting, 2011.

*Federated Security Incident Response Policy*, [http://www.cic.net/Libraries/Technology/Federated\\_Security\\_Incident\\_Response.sflb.ashx](http://www.cic.net/Libraries/Technology/Federated_Security_Incident_Response.sflb.ashx) , Basney, J., Grady, M., Kolb, M., Stanfield, R., Welch, V., Wessel, K., report and recommendations submitted to the CIC (<http://www.cic.net/>) Chief Information Officers and the InCommon Technical Advisory Committee (<http://www.incommon.org/about.html>), 2011.

*Research Technology Facilitator Pilot*, [http://it.illinois.edu/sites/default/files/Research\\_Technology\\_Facilitator\\_Whitepaper.pdf](http://it.illinois.edu/sites/default/files/Research_Technology_Facilitator_Whitepaper.pdf) , Baird, R., Bohlmann, M., Bridgewater, K., Grady, M., Shreeves, S., White paper submitted to the University of Illinois at Urbana-Champaign Chief Information Officer and the IT@Illinois (<http://it.illinois.edu/>) project, 2010.

*Making Federations Work: Stories from the CIC*, <http://events.internet2.edu/2010/spring-mm/agenda.cfm?go=session&id=10001098&event=910> , Grady, M., Hoekenga, L., Tracy, L., presentation at Spring 2010 Internet2 Member Meeting, 2010.

*CIC Guest Wireless Report and Recommendation*, [http://www.cic.net/Libraries/Technology/Guest\\_Wireless\\_Report.sflb.ashx](http://www.cic.net/Libraries/Technology/Guest_Wireless_Report.sflb.ashx) , Doshi, R., Grady, M., Green, J., Hazelton, K., Johnson, N., Mueller, J., Rogers, G., Utter, J., Walsh, A., report and recommendations submitted to the CIC Chief Information Officers, 2010.

*Federated Cal-aborations, Sharepoint and Bedework Discussed*, <http://events.internet2.edu/2009/spring-mm/agenda.cfm?go=session&id=10000501&event=909>, Grady, M., Schwartz, G., presentation at Spring 2009 Internet2 Member Meeting, 2009.

*Analyzing Research Proposals for CyberInfrastructure Needs and Impact*, <http://events.internet2.edu/2008/fall-mm/sessionDetails.cfm?session=10000174&event=911> , Grady, M., Jackson, S., presentation at Fall 2008 Internet2 Member Meeting, 2008.

*InCommon Participant Operational Practices (POP) for the University of Illinois at Urbana-Champaign*, [https://wiki.cites.uiuc.edu/wiki/x/\\_vL8Ag](https://wiki.cites.uiuc.edu/wiki/x/_vL8Ag), Grady, M., Wiki-based InCommon Participant Operational Practices provided to the InCommon Federation, 2008 – 2011.

*Identity Management at the University of Illinois at Urbana-Champaign*, <https://wiki.cites.uiuc.edu/wiki/x/dgFNAQ>, Grady, M., Wiki-based documents detailing identity management practices at the University of Illinois at Urbana-Champaign, and provided to the InCommon Federation, 2007 – 2011.

*Illinois Digital Scholarship: Preserving and Accessing the Digital Past, Present, and Future*, <http://www.ideals.uiuc.edu/handle/2142/3>, Grady, M., Mischo, W., Sandore, B., white paper submitted to the University of Illinois at Urbana-Champaign Provost and campus, 2004.

## **DEVELOPMENT SKILLS**

Languages & databases: Perl, Javascript, Java, Ruby/Rails, C, XML, HTML/XHTML, CSS, LDIF, XSLT, RDF, CGI, SQL, Unix shell scripts, Fortran; Oracle, MySQL, SQLite, Berkeley DB  
OS: Linux/Unix (Red Hat, Debian, Ubuntu, SUSE, Solaris), Mac OS, Windows  
Tools etc.: SVN, Git, Mercurial, Eclipse, TextMate, JMeter, eValid, Make, Rake, Ant, Confluence, JIRA, Bitbucket  
Standards/protocols: LDAP, HTTP/S, SAML/SAML2, JAAS, SSL, SASL, WebDAV, SOAP, XML-RPC, JMS, SMTP, IMAP, Kerberos