Study examines how sharing digital music impacts working relationships

Software program builds community, but can also create misperceptions and anxiety

Jane Sanders
Research News

Co-workers sharing digital music in the workplace via Apple Computer’s popular iTunes software form impressions of each other based on their musical libraries, according to a new study by human-computer interaction researchers.

Nevertheless, music sharing served to build a community within the workplace researchers studied. This finding has implications for music-sharing technologies that are primarily created as individual jukeboxes, according to researchers from Georgia Tech and the Palo Alto Research Center (PARC).

“People sharing music in our study were aware of the comings and goings of others in the office because they noticed the appearance and disappearance of others’ music on the network,” said Amy Voida, lead author of the paper and a doctoral student at Tech. “What once was an individual jukebox became a music community.”

Digital music sharing among people in the same local area network became possible when Apple added the optional feature to its dual-platform software, which was designed primarily for home users. Users can share their entire digital music libraries or selected playlists.

In contrast to previous online music-sharing technologies, music files reside only on their host machine and, when shared, are streamed to another user’s computer.

“In the workplace, music sharing plays with the boundaries around things you as an employee might not want to share with other employees,” said Beki Grinter, an associate professor of computing who was a PARC researcher when the study began. “We found that sharing your music is actually quite a strong personal statement.”

The researchers’ report is filled with vignettes that illustrate this finding.

One participant was worried about what his co-workers would think of the Justin Timberlake and Michael McDonald music he had purchased for his wife and included in his library. Meanwhile, other users hid their expertise because they thought their co-workers would not relate to it or find it distasteful.

“My favorite vignette is about the manager who joined the network,” Grinter recalled. “When the manager showed up and could start looking through people’s music collections, people began to speculate that the manager’s presence might be influencing the way others were managing what music they shared.”

Keith Edwards, also a former PARC researcher who is now an associate professor of computing at Tech, added, “iTunes was not designed for the not-quite-anonymous, not-quite-known user. And it’s not clear Apple wants to go in this direction.”

The researchers concluded: “One of the greatest challenges for technical innovation in music sharing may be in allowing designers to make the leap between treating music-sharing technologies as personal music-listening utilities and treating music-sharing technologies as online communities. Although music sharing has traditionally been a strong indicator of group identity and has reflected shared musical taste, our study of iTunes music sharing has demonstrated that even groups with disparate musical tastes can form strong group identities.”

For more information...

Human Centered Computing
www.cc.gatech.edu/hcc

High notes

Ivan Allen College undergraduate Anthony Smith leads the Men’s Glee Club in welcoming the audience to the 12th annual awards day of the College of Architecture with a cappella renditions of several popular music songs.

Founded in 1906, the Club is Tech’s oldest student organization. They will perform April 25 at 8 p.m. in the Student Center Theater, with a program titled “Live Music for Dead Week.”

Tech researchers use the presidency to predict the stock market

Brad Dixon
College of Management

U.S. stock markets may remain sluggish during 2005 and 2006 if they follow a long-standing pattern of slowing in the two years following a presidential election, according to a study by two Georgia Tech College of Management researchers.

“Our results show that stock prices tend to rise substantially over the two years prior to a presidential election and show limited improvement or even decline over the two years following an election,” writes Fred Alvíne, professor emeritus of marketing, and Rajesh Chakrabarti, assistant professor of finance, in the report “Presidential Cycles in Stock Market Performance.”

According to the study, this pattern has regularly recurred over the last 40 years with two exceptions: the second terms of Ronald Reagan and Bill Clinton. “The average investor would perhaps be prudent to keep in mind the historical pattern in stock prices over the four-year election cycle and reduce stock market exposure at this time,” Alvíne and Chakrabarti caution. “Wall Street loves optimism. However, in the end, those who forget history may well be condemned to relive it.”

During the previous 10 four-year presidential terms, two of the major stock markets indexes have, on average, yielded very modest, positive returns in the first year, negative returns in the second year, boomed in the third year and remained strong in the fourth year.

Rather than a chance phenomenon, the upturn in the stock market and economy during the last two years of a presidential term is usually the result of actions taken by the

Market continued, page 2

WWW.WHISTLE.GATECH.EDU
Study notes Tech’s economic impact as a benchmark

Matt Nagel  
Institute Communications and Public Affairs

A
d economic development study conducted by the state of Connecticut ranks Georgia Tech among the nation’s elite institutions for generating economic development through university transfer of technology. The report — Accelerating Economic Development through University Technology Transfer — notes several factors that help states position their universities as centers of innovation and business growth, including strong academic leadership and research capabilities, availability of early stage capital, commitment to and support of entrepreneurship programs and the existence of infrastructure such as innovation centers, incubators and research parks.

The report states, “Georgia Tech is one of the strongest universities in terms of its relationship with and assistance to industries of all sizes and its strong role in statewide economic development.” The report also praises the Advanced Technology Development Center (ATDC) as one of the premier accelerators and research parks.

Many other states have greater resources and assistance to industries of all sizes and its strong role in statewide economic development. For example, Georgia W. Bush implemented a series of tax cuts that stimulated the economy and drove the stock market upward during the third and fourth years of his first term — improvements that were critical to his re-election for a second term, the report notes. However, sometimes the rise doesn’t require presidential action, as in the last half of President Clinton’s second term when the Internet boom greatly boosted the economy and markets, the study shows.

“George W. Bush’s first term stayed remarkably close to the script with very poor stock market performance during 2001 and 2002 followed by marked improvement during 2003 and 2004,” Altwine and Chakrabarti write. “Close to the first 100 days into the second term, there are concerns about the growing federal budget deficit and the record current account deficit. With no room left for further tax cuts, the market may well be poised for an encore performance of the presidential cycle.”

GT-Emory cancer fund awards inaugural seed grants

Michael Hagearty  
Institute Communications and Public Affairs

The first awards from a new fund investigating novel treatments to target and control cancer have been announced.

The initiative, known as the Georgia Tech-Emory Fund for Innovative Cancer Technologies (FITC), provides seed grants for development of any type of new technology pertinent to cancer detection, evaluation and control. The grants were awarded based upon a competitive review process, and represent the first research ties between Emory University and Georgia Tech.

“The quality of these grant proposals made selecting just four very difficult,” said Alfred Merrill, a professor in the School of Biology and co-director of the FITC grant process. “Everyone on the scientific review panel felt that the scientific merit of these submissions is an indication that we are moving in the right direction in terms of cancer research. These grants are critical to the continued development of new ideas in cancer research and treatment.”

The awards — between $25,000 and $45,000 — will help researchers gather preliminary data for use toward future grant applications to the National Cancer Institute and other organizations.

“These awards are extremely important for many reasons,” said Jonathan Simons, director of Emory’s Winship Cancer Institute. “The grants help fund collaboration between two great universities to accelerate development of emerging biotechnologies. At the same time, we are providing seed money to explore new, scientifically sound innovations to ensure that we leave no stone unturned in the fight against cancer.”

Funds for this initiative have been provided by the V Foundation for Cancer Research and the Georgia Cancer Coalition.

2005 FITC Awards

• “Investigation of Secondary Neutron Dose Equivalent from Linear Accelerator Multileaf Collimator Configurations”  
  Rebecca Howell, Emory University
  Nolan Hartel, Georgia Tech

• “A Novel, Combinatorial Approach to Targeting Nanocarriers to Gliomas”  
  Ravi Bellamkonda, Georgia Tech
  David Jaye, Emory University

• “A Novel Methodology in the Detection of Biomarkers by an Acoustic Wave Biosensor in Head and Neck Cancer”  
  William Hunt, Georgia Tech
  Dong Shin, Emory University
  Georgia Chen, Georgia Tech

• “A New Platform for Anticancer Drug Discovery”  
  Rachel Chen, Georgia Tech
Last week's Faculty/Staff Honors Luncheon offered an opportunity to recognize not only the award winners listed below, but also 1,59 members of the Tech community who marked their 10-year anniversary, and another 62 (listed at right) who reached the 25-year mark. The Whistle extends its congratulations to the honorees.

### 2005 SMART TUTORIAL REIMBURSEMENT ASSISTANCE PROGRAM (STRAP) GRADUATES
- Sean Brennan, Information Technology
- Ruby Cross, Library and Information Center
- Karen Glover, Library and Information Center
- Sabrina Humley, Information Technology
- Betty Jones, Management
- Carolyn Schneider, Enrollment Services
- Myro Stewart, Management
- Vincent Thorpe, Library and Information Center
- Thomas Westbrook, Chemistry and Biochemistry

### DON BUNCH HUMAN RELATIONS AWARD
- James Wilson, office automation systems coordinator, Georgia Tech Research Institute

### ADMINISTRATIVE SERVICE AWARD
- Charles T. Duffy, director, Grants and Contracts Accounting

### GEORGIA TECH CHAPTER SIGMA XI AWARDS
- Young Faculty Award
  - T. Evangelos Dedertakis, assistant professor, Mechanical Engineering
  - Christopher W. Jones, assistant professor, Chemical and Biomolecular Engineering

### FACULTY BEST PAPER AWARDS
- Gang Bao, professor, Biomedical Engineering
- Joseph F. Montejo, associate professor, Biology

### SUSTAINED RESEARCH AWARD
- Zhang Lin Wang, professor, Materials Science and Engineering

### FACULTY RESEARCH AWARDS
- Outstanding Doctoral Thesis Advisor
  - David M. Collard, associate professor, Chemistry and Biochemistry

### OUTSTANDING ACHIEVEMENT IN RESEARCH PROGRAM DEVELOPMENT
- Gang Bao, professor, Biomedical Engineering

### OUTSTANDING FACULTY RESEARCH AWARD
- Zhang Lin Wang, professor, Materials Science and Engineering

### OUTSTANDING FACULTY LEADERSHIP FOR THE DEVELOPMENT OF GRADUATE RESEARCH ASSISTANTS
- Mark G. Allen, professor, Electrical and Computer Engineering

### AANAK AWARD
- Joel Sokol, assistant professor, Industrial and Systems Engineering

### EDUCATION PARTNERSHIP AWARD
- Cindy Jung, graduate student, Biomedical Engineering
- Joe LeDoux, graduate student, Biomedical Engineering
- Amanda Lockhart, science teacher, Decatur High School

### OUTSTANDING STAFF PERFORMANCE AWARDS
- Frank Cannella, facilities manager, Biology
- Ingrid Daley, assistant benefits manager, Human Resources
- Enach Gambale, assistant director, Georgia Tech Research Institute
- Karen Hutchenson, administrative manager, Materials Science and Engineering
- Annette Rohrs, web author, Mathematics

### CELT/BJP JUNIOR FACULTY TEACHING EXCELLENCE AWARD
- Pinar Keskinocak, assistant professor, Industrial and Systems Engineering
- Sylvia Maier, assistant professor, International Affairs
- Noel McCarty, associate professor, Biology

### Academic Advisor Awards Committee

### OUTSTANDING UNDERGRADUATE ACADEMIC ADVISOR–STAFF
- S. Elizabeth Miller, academic advisor, Ivan Allen College

### OUTSTANDING UNDERGRADUATE ACADEMIC ADVISOR–FACULTY
- W. Brent Carter, director of undergraduate programs, Materials Science and Engineering

### Faculty Honors Committee Awards

### W. ROXIE BOARD OUTSTANDING TEACHER AWARD
- Jeffrey Davis, professor, Electrical and Computer Engineering

### W. HOWARD ECTOR OUTSTANDING TEACHER AWARD
- Roberto Berry, associate professor, Public Policy

### OUTSTANDING SERVICE AWARD
- Carol Calatrello, professor, Literature, Communication and Culture

### OUTSTANDING PROFESSIONAL EDUCATION AWARD
- Lawrence Kahn, professor, Civil and Environmental Engineering

### OUTSTANDING UNDERGRADUATE RESEARCH MENTOR (FACULTY) AWARD
- Dongmei "May" Wang, assistant professor, Biomedical Engineering

### OUTSTANDING INNOVATIVE USE OF EDUCATION TECHNOLOGY AWARD
- Randal Alder, assistant professor, Electrical and Computer Engineering

### OUTSTANDING INTERDISCIPLINARY ACTIVITY AWARD
- Boris Mezaikoff, associate professor, Chemistry and Biochemistry

### DISTINGUISHED PROFESSOR AWARD
- Thomas K. Gaylord, Regents’ professor, Electrical and Computer Engineering

### 25-year anniversaries

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Name</th>
<th>Honorees</th>
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<tbody>
<tr>
<td>April 18, 2005</td>
<td>Faculty/Staff Honors Luncheon</td>
<td>John C. Adams Jr, Economic Development Institute, A. James Allman, Georgia Tech Research Institute, Robert N. Barnett, Physics, John J. Landgren, Computing, Robert B. Iann, Economic Development Institute, Linda L. Laughlin, Georgia Tech Research Institute, Natasha Laughlin, Facilities, John B. Barthold, Industrial and Systems Engineering, Andrew Linstead, Georgia Tech Research Institute, Donald E. Long, Mechanical Engineering, Susan E. Loginsky, Sponsored Programs, Marko Jo Mckver, Georgia Tech Research Institute, Mary E. Milliken, Georgia Tech Research Institute, David P. Millard, Georgia Tech Research Institute, Angela J. Milliken, Professional Practice, Carol E. Moore, Provost's Office, Wenda G. Moore, International Affairs, John M. Nuzzio, Chemistry and Biochemistry, Wenda Ford Harwood, Housing, Henry L. Owen III, Electrical and Computer Engineering, Bobby A. Ramsey, Georgia Tech Research Institute, Larry Rynearson, Georgia Tech Research Institute, Cindy L. Roberts, Georgia Tech Research Institute, Rachel G. Rodemoyer, Human Resources, Manon L. Saphire, Library and Information Center, Jean C. Santamaria, Georgia Tech Research Institute, Odella N. Smith, Georgia Tech Research Institute, Bhuvna Sood, Burton's Office, Ayana S. Tatas, Chemical and Biomolecular Engineering, Kenneth E. Thomas, Civil and Environmental Engineering, Erik L. Verriest, Electrical and Computer Engineering, Christine Weinberg, Mathematics, William J. White, Distance Learning and Professional Education, Ronnie L. Ziehary, Facilities, Harold Zand, Civil and Environmental Engineering.</td>
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CAMPUS EVENTS

Arts & Culture

Apr. 20
The Georgia Tech Jazz Ensemble and the Georgia Tech Symphony Orchestra present "Mob Hits" with Canadian jazz recording artist Jennifer Hanson and Atlanta vocalist Del Baron at 8 p.m. in the Frist Center for the Arts. For tickets, call 894-9609.

Apr. 24
The Department of Music presents its spring choral concert, "Psalms, Sonnets and Songs," featuring the GT Chamber Choir and Chorale. This is a free event. For more information, visit www.coa.gatech.edu/music.

Brown Bags/Conferences/Lectures

Apr. 18-19
The Georgia Electronic Design Center and the Georgia Tech Analog Consortium host the spring Industry Advisory Board meeting in the Global Learning and Conference Center. To register, visit www.gedcenter.org/events.html.

Apr. 19-21
The Manufacturing Research Center hosts the NASA-ESA Workshop on Product Data Exchange, featuring "Complex System Interoperability and NASA-ESA Workshop on Product Data Exchange," at 2:30 p.m. in the University's Wylie Hall. All Georgia Tech students, faculty and staff are welcome.

Faculty/Staff Development

Apr. 21
The Office of Information Technology sponsors "Introduction to Windows Security," at 11 a.m. in room 521 of the Student Center. This class is open to all and there is no cost to attend. To register, visit www.trainweb.gatech.edu.

Apr. 21
The Georgia Tech Research on Accessible Distance Education (GRADE) project hosts a free lunch and learn on "Accessible PDF" at 11:30 a.m. E-mail barbara.christopher@coa.gatech.edu to register.

Apr. 26
The Office of Organizational Development hosts a lunchtime workshop featuring tips and techniques on using TechWorks to complete administrative transactions. This session will include personalization features, hands-on activities and discussion, at noon in room 201 in the Office of Human Resources Building at 811 Marietta Street. To register, visit www.trainweb.gatech.edu.

Miscellaneous

Apr. 19
Cael MacBook SDE and 10-year tax abatement. 10-year tax abatement.

Apr. 22
Georgia Tech's Earth Day Celebration, on the Skiles Drive-Gatech. For more information, visit www.earthday.gatech.edu.

Apr. 29
Last day of classes for spring semester.

May 2-6
Final exams.

May 7
Spring commencement, featuring an address from U.S. Secretary of Energy Sam Bodman, will be at 9 a.m. in the Georgia Dome. For more information, visit www.gatech.edu/commencement.

CLASSIFIEDS

AUTOMOBILES
1998 Volkswagen Rabbit. Convertible, black, 102K miles, new convertible top, alternator, windshield & gasket, Michelin tires, runs great, great condition, second owner, $1,500. E-mail dhoof86@att.net.
1997 Chevrolet G20 conversion van. Runs great, new transmission at 109K miles. New exhaust, all records, body rough, 154K miles, needs new windshield, $950 OBO. E-mail dhoof86@att.net.
1992 Honda Accord EX sedan. Black, 102K miles, new convertible top, alternator, windshield & gasket, Michelin tires, runs great, great condition, second owner, $1,500. E-mail dhoof86@att.net.
1999 Mercury Cougar. Automatic transmission, dual front air bags, 6 CD player, 2.5L V6, 75K miles, $5,800. Used car. Contact at 678-641-2380.

FURNITURE
Queen-size mattress and box spring, $150. Wooden desk with hutch, $50. Both barely used and in good condition. E-mail jennifer.brown@ece.gatech.edu.

5-piece bedroom set; dresser/mirror, nightstand, headboard & tall dresser, $500 OBO. Pictures available. E-mail katie.labahans@business.gatech.edu.

REAL ESTATE/RENTAL
4BR/2.5BA house in Henry County. Eagles Landing schools. Hardwood floors, tile, cathedral ceilings, garden tub, sep. shower, gas logs, 2-car garage, wooded lot. Offered at $139,500. Call 385-0290.
1BR/1BA newly renovated, furnished apartment in Morningside. Off-street parking. No pets, non-smoker. $730/month includes all utilities except gas. DSL is extra. Call 404-414-1232.
2BR/1BA house east of Decatur, just outside I-285. Includes new appliances, outdoor studio and carport, deck and fenced back yard. $139,500. Call 404-299-6160 or e-mail csgogrovecas@gatech.edu.

FULLY FURNISHED DOWN TOWN 1BR condo. Cable, DSL, gas, electric paid with association fee. Pre-paid parking. 24/7 concierge. 10-year tax abatement. $115,000. Call 404-255-9249 or e-mail omaar_keiko@bellsouth.net.

SPORTS/FITNESS/RECREATION
Yakima Super Joe 3 trunk mount bike rack. Holds up to 3 bikes. Great condition. See “choose my rack” at www.yakima.com to see if it fits your car. $35. E-mail jennifer.dubose@fri.gatech.edu.

MISCELLANEOUS
White wedding dress with detachable train; veil included, size 18. Never worn, can be altered. Pictures are available upon request. Asking $250. E-mail lisataseley@ece.gatech.edu.

While wedding dress with detachable train; veil included, size 18. Never been worn, can be altered. Pictures are available upon request. Asking $250. E-mail lisataseley@ece.gatech.edu.

Olympus OM-2 SLR with 28mm, 55mm and 135mm lenses, $300. E-mail jmoney@ece.gatech.edu.

Fisher Price infant-to-toddler rocker. Includes three developmental toys designed to bring out baby's full potential that first year. $15. Call 678-223-1095 for photos.


3-year-old male Rottweiler mix looking for a good home with a yard. For pictures and more info, e-mail othelioless@yahoo.com.

ARK Old English Sheepdog puppies available mid-May. Raised using New Skeete methodology. Health guarantee; all shots. Males and females, $400-$800. Call 404-211-6900 or e-mail widi@mindspring.com.

Roland V-Drums, 11-piece set with rack, perfect condition, 5 years old, virtually never used. Paid $3,000, sell for $2,000 cash. E-mail greg.stenzoski@dlpe.gatech.edu or call 385-254-3399.

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