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University of Colorado
Boulder
TAM GRADUATES 55: Students in the ATLAS Technology, Arts and Media (TAM) program received their minor degrees and digital media certificates during graduation ceremonies in December. Above, ATLAS director John Bennett addresses the audience; Alexandra Morgan, at right in the photo above right with Information and Communication Technology for Development (ICTD) program director Revi Sterling, received her master’s degree in ICTD.

BDW GRADUATES 18: BDW, which is a post-digital studio within the ATLAS Institute that offers graduate programs in digital communications, held its graduation celebration in its building in east Boulder in December. Appropriately, some of the 18 graduates attended online via Skype.
PRACTICUM PRESENTATIONS: Graduate students presented their practicum projects and concepts in November as part of the ATLAS Information and Communication Technology for Development (ICTD) program. The practicum portion of the program consists of an internship or service project with a company engaged in ICTD efforts, an international development agency, foundation, non-governmental organization, or other organization in the public or private sector. Two individual projects and three team projects were presented. From left to right in the top row are Rachel Powers; Laksmi Haridas McArthur; Josephine Kilde, a Ph.D. student; Isla Schanuel; Emmanuel Wayo; Rachel Strobel; in the bottom row, left to right, are Chris Carruth; Hawra Rabaan; Matt Hulse; Maryam Moghaddam-Zadeh; Dani Rodriíguez; and Joellen Radersdorf. For descriptions of each project and a video of the presentations, go to http://bit.ly/10qFaHn.

Meg Leta Ambrose, an ATLAS Ph.D. student who is spending the 2012-13 academic year at the Berkman Center for Internet & Society at Harvard University, gave a presentation entitled “Right to be Forgotten: Ethical Considerations” at the European Commission Joint Research Centre, and also gave presentations about her research at the Indiana University Center for Apply Cybersecurity Research and Telecommunications Research Policy Conference. She has a paper entitled “It’s About Time: Privacy, Information Lifecycles, and the Right to be Forgotten” to be published in the Stanford Technology Law Review. Ambrose will become an assistant professor in Georgetown’s Communication, Culture and Technology program, focusing on international technology policy, starting in August.

Ph.D. student Heather Underwood presented a paper at the IEEE Global Humanitarian Technology Conference in Seattle in October, at the ACM Dev conference in Bangalore, India, in January, and attended the mHealth Conference in Washington, D.C., in December. Her invited presentations on her PartoPen work include the SVC Wireless conference in Palo Alto in December; the UW Change Group in November; and the CU Med Scholars in November, which included a presentation on best practices for health research in developing countries.

Kevin Moloney presented his Ph.D. research on transmedia storytelling in journalism first at the Aurora Multimedia Workshop at ATLAS in May, then to members of the National Press Photographers’ Association as part of their “Business Blitz Road Show” in Boston, Austin and Chicago on dates from July through October, and most recently to the staff of Rich Clarkson and Associates – a multimedia visual storytelling firm in Denver – in December. He also co-presented with Marijke Unger of the National Center for Atmospheric Research at the American Geophysical Union fall meeting in San Francisco in December. The segment was titled “Transmedia Storytelling and Science Communication.” The presentation will be recreated as a potential book chapter for an edited volume tentatively titled, “New Ideas in Geoscience and Environmental Communications.”

Ph.D. student Leslie Dodson continues her fieldwork in southwestern Morocco, where she is researching the use of mobile phones in rural Berber communities. Her research (Continued on Page 4)
ATLAS Research Roundup

(Continued from Page 3) is sponsored by a grant from the American Institute for Maghrib Studies (AIMS). While in Morocco, she attended the 5th International Conference on Information and Communication Technologies for Amazigh. The biannual event on applied and computational linguistics was held at the Royal Institute of the Amazigh Culture (IRCAM) in Rabat. In February, she will present her work on “The Mobile Utility Gap and Literacy Challenges in Oral-Language Communities: SMS Use by Berber Women in Morocco” at UNESCO’s Mobile Learning Week in Paris. In March, she will co-present “An Experiment in Fog: Collection and Equity among Berber Communities in Morocco” at the annual meeting of the Society for Applied Anthropology in Denver.

• Ph.D. student Jiffer Harriman is working with ATLAS Center for Media, Arts and Performance director Michael Theodore on an interactive sound art installation set to be unveiled in the spring at the David B. Smith Gallery in downtown Boulder. Harriman also plans to attend the Tangible Embedded Interaction (TEI) conference to present his research in tangible interfaces and the overlap between art and technology.

• Ph.D. student Calvin Pohawpatchoko is continuing his work with Native Students at a Denver public school. He also gave a talk to students in a new American Indian History class at Denver Center of International Studies High School. He will give a talk entitled “Communities Old and New: Indigenous Knowledge meets New Approaches in Education” for the CU Presidents Leader Class on April 16. Pohawpatchoko also has received a CU Chancellor’s Award for Excellence in STEM (Science, Technology, Engineering and Math) Education for his work improving STEM education for indigenous students.

• Kara Behnke, an ATLAS Ph.D. student whose research focuses on how digital games and game design elements can enhance strategies for teaching computer science, has been accepted to participate in the ACM SIGCSE Student Research Competition, which will be held in Denver in March. Behnke also participated in a panel entitled “Epic Win: Opening Doors for Women in Games Research and Development” at the Grace Hopper Celebration of Women in Computing conference in October.

• About 20 women in ATLAS graduate and undergraduate programs attended the Grace Hopper Celebration of Women in Computing conference from Oct. 3-6 in Baltimore. The ATLAS Institute once again was a Gold academic sponsor of the annual event, which is presented by the Anita Borg Institute for Women and Technology and is billed as the world’s largest gathering of women in computing.

• Abigale Stangl of the ATLAS ICTD master’s program was among four CU graduate students selected to participate in the Project-Oriented Learning Environment (POLE) project, led by the University of Applied Sciences and Arts Northwestern Switzerland. Each year POLE focuses on a single problem, with this year’s project challenging students to develop innovative, new ticket vending ideas for the Swiss railway and transportation company A-Welle, based in Aargau, Switzerland.

• Alexandra Morgan, who graduated from the ATLAS master’s program, has been working in ICT and Education for World Vision Haiti (WVH) in Haiti’s central plateau since her practicum with WVH last January. Her practicum became a full-time position. She finished her coursework from abroad and completed her work for the December graduation.

• Revi Sterling, who is director of the ATLAS ICTD master’s program, is leading the research working group of UNWomen’s “Women, ICT, and Development” task force, which first convened in September and is hosting a forum in Washington, D.C., this month for international policy makers, including U.S. ambassadors to developing countries, as well as top State Department, World Bank and USAID officials. The research working group is responsible for driving an academic research agenda into 10 ICTD and gender sectors, including health, access, policy, education, funding and capacity building, which UNWomen will champion throughout the UN system.

• Revi Sterling and Ruscha Cohen, who is the ICTD master’s program adviser, are enrolled in a graduate certificate, Global Mental Health and Trauma, through Harvard Medical School in order to create curriculum and research that integrates approaches to working with highly-traumatized populations, as well as creating technical systems to sustain and scale mental health efforts in rural or conflict-zone areas as a precondition to development programs. The program kicked off with an intensive two-week training in Porano, Italy, and continues as an online course through June.

• Rachel Strobel, a student in the ATLAS master’s program in Information and Communications Technology for Development (ICTD), is one of two scholarship winners for attending the Trust Women Conference held in December in London. Strobel submitted an essay to the contest at the Grace Hopper Celebration of Women in Computing conference in October. She wrote about her plans to use technology to counter human trafficking and cited her ongoing work in Mexico and her future plans in the region. Strobel will work with Workforce Boulder during the spring semester. She will be working for its youth initiative and will be implementing a technology to connect youth in the Boulder County area to Workforce’s resources for jobs and college prep.
Introducing the Spring 2013 ATLAS Speaker Series
Free and open to the public. Located in Cofrin Auditorium, ATLAS 100, first floor, unless otherwise noted.

6-7:30 p.m. Wednesday, Feb. 6, downstairs ATLAS Black Box theater
Digital Media and Music as an Instrument for Social Change
Paul Miller (aka DJ Spooky) will discuss his recent work exploring digital media, music and the ways that art can open minds and help people gain new perspectives on issues like climate change. He will perform multimedia electronic compositions (using his own DJ app and projected graphics) accompanied by CU students on violin and cello. Miller is a multimedia digital artist, author of “The Book of Ice” and the first artist-in-residence at NYC's Metropolitan Museum of Art. His visit is a collaboration between the ATLAS Institute, the Program for Writing and Rhetoric and the President’s Fund for the Humanities.

4-5 p.m. Monday, Feb. 18
How Open Source Software is Changing Technology
Stormy Peters will discuss the future of technology through the use and development of open source software. She will show how nonprofits and open source software projects set technology trends. Peters is an advocate and supporter of open source software and its potential to change the software industry. She is director of websites and developer engagement at Mozilla and founder and VP of Kids on Computers, a nonprofit that sets up computer labs in developing countries.

4-5 p.m. Monday, Feb. 25
Women and the Web: Bridging the Gender Internet Gap in Developing Countries
Renee Wittermyer will discuss the data on the large Internet gender gap in developing countries and the social and economic benefits of securing Internet access for women. Across the developing world, nearly 25 percent fewer women than men have access to the Internet and the gap soars to nearly 45 percent in sub-Saharan African regions. She will present a call-to-action to dramatically change these numbers. She is director of social impact in Intel's Corporate Responsibility Office, develops strategies for Intel's women's campaign and manages relationships with strategic alliances, such as USAID, NGOs and U.N. Women.

4-5 p.m. Monday, March 18, downstairs ATLAS Black Box theater
Learning at the Intersection of Computer Science & Music
Ge Wang will discuss the transformative possibilities of music and computing to make art, strange new instruments and connections to people around the world. His talk will explore laptop and mobile phone orchestras, computer music languages, social music apps like Ocarina and Magic Piano – all examples of an emerging, growing space where computers, music and people interact. Wang is a Stanford University assistant professor in the Center for Computer Research in Music and Acoustics (CCRMA) and researching programming languages and interactive software systems for computer-generated music.

4:15-5:15 p.m. Wednesday, April 10
Learning to Love Technology by Making Arts and Crafts
Leah Buechley will discuss her work developing accessible technologies that allow people of all ages – including those who might not otherwise be attracted to computing – to sketch, design, paint and sew while incorporating electronic technology. As examples, she will show student projects that blend computing with traditional arts, crafts, textiles, paper and wood. A developer of the LilyPad Arduino toolkit, Buechley received her master's and Ph.D. degrees in computer science from CU. She is an associate professor at MIT and directs the High-Low Tech Media Lab.

6:7:30 p.m. Friday, April 26
Mystery, Music and Digital Innovation
Nicolas Jaar, an international multimedia performing artist, will talk about his digital music work and creative process. Record label colleagues plus emerging Colorado-based music producers will join him in a Q&A discussion. Jaar is founder of the record label Clown & Sunset and released his debut album “Space Is Only Noise” in 2011. He has performed around the world including an acclaimed five-hour improvisation at NYC's Museum of Modern Art. The talk is a collaboration between ATLAS Institute and the Communikey Festival of Electronic Arts, http://communikey.us.

The ATLAS Speaker Series is made possible by a generous donation by Idit Harel Caperton and Anat Harel. Visit http://www.colorado.edu/atlas/speakerseries. Audience members are advised to arrive 15 minutes before start times. Seating is limited and first-come, first-served.
GENDER AND GAMING: Yasmin Kafai, a professor of Learning Sciences at the University of Pennsylvania and a pioneer in research on electronic gaming, talked about gender research and gaming during a Speaker Series event in November.

ENTREPRENEURSHIP: Nicole Glaros, an entrepreneur and managing director of TechStars Boulder, gave a talk entitled “The Entrepreneurial Ecosystem” as part of the ATLAS Speaker Series in October.

VIRTUAL JUSTICE: Greg Lastowka, a professor at Rutgers University Law School, discussed legal issues in virtual worlds in October.

SPEAKER SERIES – SATELLITE IMAGING: Walter S. Scott, who is founder, chief technology officer and executive vice president of DigitalGlobe, a leading global provider of commercial high-resolution Earth imagery products and services, talked about satellite imaging at a Speaker Series event in September.

For videos of Speaker Series presentations, go to http://www.colorado.edu/atlas/speakerseries/
ENTREPRENEURSHIP: Wendy Lea (center), who is CEO of Get Satisfaction, a leading customer engagement platform, discussed her experience and lessons as a successful entrepreneur during an ATLAS Speaker Series/Entrepreneurs Unplugged presentation in December. At left is Brad Feld, a venture capitalist and member of the Silicon Flatirons Center and Entrepreneurs Unplugged host; at right is Jill Dupré, associate director of ATLAS and Entrepreneurs Unplugged host.

EFFECTS OF COMPUTING: Nicholas Carr, a Boulder-based author of the Pulitzer Prize-nominated bestseller “The Shallows: What the Internet is Doing to Our Brains,” and the Atlantic Magazine piece “Is Google Making Us Stupid,” discussed how digital media influence the way people think, read and interact during an ATLAS Speaker Series presentation in October.

TECHNOLOGY AND WRITING: Matthew G. Kirschenbaum, a professor of English at the University of Maryland and director of the Maryland Institute for Technology in the Humanities, talked about how changes in technology might be affecting writing during an ATLAS Speaker Series presentation in October.
Black Box offers music, theater, dance

The ATLAS Center for Media, Arts and Performance has scheduled performances for the spring semester. The events are in the ATLAS Black Box, which is located downstairs, lowest basement level, B2, of the Roser ATLAS Building, and are free and open to the public unless otherwise stated.

Boxes - Multimedia music, film & dance theater that asks: Is everything fated? How do we box ourselves in?
Raechel Sherwood, who has written, directed and produced two productions for CU OnStage’s Fringe Festival and is currently working on degrees in music composition and broadcast production, examines the boxes we create for ourselves and others.
7:30 p.m. Friday & Saturday, Feb. 1 & 2

Digital Media and Music as an Instrument for Social Change
Paul Miller (aka DJ Spooky) will discuss his recent work exploring digital media, music and the ways that art can open minds and help people gain new perspectives on issues like climate change. He will perform his mix of electronic compositions (using his own DJ app) accompanied by CU students. Miller is a multimedia digital artist, author of “The Book of Ice” and the first artist-in-residence at NYC’s Metropolitan Museum of Art. His visit is sponsored by ATLAS Institute, the President’s Fund for the Humanities and the Program for Writing and Rhetoric. Visit http://www.djspooky.com.
6-7:30 p.m. Monday, Feb. 6

Canvas - a multimedia concert
CU College of Music doctoral student Cole Ingraham will present a live solo concert surrounded by floor to ceiling screens filled with his original animated video paintings and 8.1 surround-sound using an iPad and Moog Guitar.
7:30 p.m. Friday & Saturday, Feb. 15 & 16

Pendulum New Music
This concert series, now in its 12th season, presents the best of new music with CU faculty, students and guest artists.
7:30 p.m. Wednesday, Feb. 27

The Boulder Laptop Orchestra (BLOrk)
John Gunther, an assistant professor of jazz studies at CU, and John Drumheller, instructor and director of music technology, direct a variety of original pieces with an eclectic ensemble of musicians equipped with laptops, hemispherical speakers, traditional instruments and MIDI controllers.
7:30 p.m. Saturday, March 2

Brakhage Center Symposium
Since 2005, this event has brought together contemporary filmmakers, scholars, critics, curators and members of the public to discuss and explore contemporary experimental film.
Saturday & Sunday, March 16 & 17, downstairs Black Box theater and downstairs in the Visual Arts Complex; full info at http://brakhagecenter.net/symposium/index.htm

Two choreographers produce multimedia dance - a synthesis of Hip Hop, psychology, improvisation and theater
This 90-minute program features two multimedia dance productions performed by 14 dancers. Separated by an intermission, one production is choreographed by CU BFA dance student Skye Hughes, the other by Charlie Dando, founding dancer/choreographer of Boulder’s award-winning Break Efx dance company.
7:30 p.m. Friday & Saturday, April 5 & 6

The Communikey Festival of Electronic Arts (CMKY)
This annual festival features a series of concerts and workshops celebrating electronic arts and artists.
Monday through Saturday, April 22-27; full info at http://www.communikey.us/

SuperCollider 2013 Symposium
The SuperCollider Symposium is an international event for musicians, artists, researchers and coders working with SuperCollider software.
Monday, May 20; full info at http://supercollider2013.com/
LIVE RECORDINGS: Boulder Box Set, which is a music/entertainment series that features performances captured live in high definition in the ATLAS Black Box, featured two events in December: the Denver-based rock group The Congress, above, and cellist, pianist, singer and songwriter Ian Cooke, at right. For more information about Boulder Box Set, go to http://boulderboxset.org/
MULTIMEDIA PERFORMANCE:
Composer, performer and multimedia artist Pamela Z, above, performed an evening of works for voice with live, electronic processing, a gesture-activated MIDI controller and interactive video in the Black Box in December. At left are members of the Boulder Laptop Orchestra (BLOrk) who also performed.
BLACK BOX PERFORMANCES:
October events in the ATLAS Black Box, produced by the Center for Media, Arts and Performance, included the “Concert About Nothing: the Music of John Cage,” above left, featuring the music of John Cage performed by CU faculty and special guest Third Coast Percussion; Slim Cessna’s Auto Club, above right, featured as part of a the Americas Latino Festival; and “Pixels in the Closet,” a unique collaboration between Hong Kong dancer Abby Chan and Denver digital artist Bryan Leister.
“SHIP IN A GLASS MUSEUM” Technology, Arts and Media student Taylor Wong, a design studies major, chose glass for his capstone project; part of the concept included a reference to the RGB colorspace.

“THE E-BOOK REVOLUTION” Sabina Muslimovic, an English major, designed posters to push the concept of e-books and to focus on positive benefits of e-books over traditional books.

“SHIP IN A GLASS MUSEUM”-related image.

“MODULAR CHAIR” Chelsea Brooks, an environmental design major, designed and assembled this modular chair using Rhinoceros 3D software.

“MODULAR CHAIR”-related image.

“ABSTRACTION GENIUS?” Kelsey Moore, an environmental architecture major, produced a series of abstract artworks by rearranging the patterns of three famous art pieces in an attempt to create works that could be masterpieces or mistaken for masterpieces.

“ABSTRACTION GENIUS?”-related image.
“TECHNOLOGY’S INFLUENCE ON COMMUNICATION STYLE”  Amy Kearney, a communications major, created three artworks to depict how communication and technology depend on one another.

T-SHIRTS, VIDEO COMPOSITION: Diana Roen, a studio art major, created a series of screen-printed shirts (above) inspired by communication through technology and media in her capstone project entitled “Delightful Rebel.” John Regaldo, a film studies major, combined the aesthetics of old broadcast television monitors with a vibrant video composition (at right) made using an iPhone 4s and Final Cut Pro X.
Ellsworth gets arts grant from Creative Capital

Michelle Ellsworth, associate director of the ATLAS Center for Media, Arts and Performance and a professor and associate chair of CU’s Theater and Dance department, has received a 2013 Creative Capital Performing Arts Grant.

The New York-based foundation supports innovative and adventurous artists across the country through funding, counseling and career development services. This year it awarded grants for 46 projects by 66 artists. The foundation has a venture capital philosophy of supporting artists. Grantees report securing more than $10 million in public and private grant monies after receiving grants from Creative Capital, according to the foundation’s website.

Creative Capital provides projects with up to $50,000 in direct funding and career development services valued at $40,000, for a total commitment of up to $90,000 per project.

Grants are awarded in the categories of emerging fields, literature and the performing arts.

In 2011, Ellsworth received a $50,000 United States Artists (USA) Knight Fellowship Award for her work in the field of dance.
TEDx TALK: BDW director David Slayden gave a presentation as part of a November TEDx event in Sao Paulo, Brazil. The theme of TEDxFIAP was “Technologies of the Future.” More information about the event and participants is at http://www.ted.com/tedx/events/5204.

ATLAS News & Notes

Joel Swanson, director of the ATLAS Technology, Arts and Media (TAM) program, was among artists featured in a Denver Post article about Denver’s Redline art gallery’s annual resident artists exhibition. Read the article at http://bit.ly/SlSixi.

Swanson also has been invited to produce a video artwork for the Sixth Annual Digital Graffiti Festival at Alys Beach, Fla., a one-of-a-kind juried venue for projected art. Artists will compete for $10,000 in prize money, awarded in five categories. All work selected for the 2013 festival will be eligible for the awards, to be held on June 7-8.

Dave Underwood of Digital Media Services, which is housed in ATLAS, was named a Channel 7 News 7Everyday Hero for his volunteer work playing music to kids at Childrens Hospital. ATLAS Center for Media, Arts and Performance technical manager Brett Mann also performs with Underwood and his band, which is named “The Bandails.” Watch the Channel 7 video at http://www.youtube.com/watch?v=MsoRle9UdLQ.

BDW, a postgraduate program offered through the ATLAS Institute, is now offering technical courses to CU undergrads. The courses are one night a week for 14 weeks. BDW is offering the following courses starting the week of Feb. 11: Wordpress; Ruby 1; Ruby 2; Full-Stack Development & Node.js.

For more information, see: http://bdw.colorado.edu/courses.

TAM student Dayton Daft won the 2012 GoPro/Racer X Amateur Film Festival competition with a video about motocross motorcycling. His winning entry secured enough votes in the finals to get the grand prize, which includes a $1,000 budget from Racer X to make a video for Racer X Online and an Ultimate GoPro MX Package. View his winning entry at http://youtu.be/7kIVhrAfjyI.


NCWIT will host its 2013 Summit: Practices and Ideas to Revolutionize Computing from May 20-22 at the Marriott Starr Pass Resort in Tucson. The event brings together people from all the different segments of the tech education and workforce to learn about best practices in gender diversity and computing education. More information is at http://www.ncwit.org/summit.

Bruce Henderson, who is director of communications for ATLAS, recently won three awards at the annual photo competition of the Flatirons Photo Club. He won a first-place award in the category of color print special effects; a first-place award in the category of color print realism; and a third-place award in the category of digital realism.

Henderson also has a 12-photo exhibit in a juried show from February-March at the National Center for Atmospheric Research (NCAR) in Boulder.
ATLAS Institute

The Alliance for Technology, Learning and Society (ATLAS) at the University of Colorado Boulder was established in 1997 as a campus-wide interdisciplinary initiative.

ATLAS broadens the benefits of the networked information age by providing multidisciplinary curricular, research and outreach programs that integrate information and communication technology with a wide variety of disciplines and people, both inside and outside the university.

More information about ATLAS and its initiatives can be found at http://atlas.colorado.edu.

To contact ATLAS, call 303-735-4577 or e-mail cuatlas@colorado.edu.

Follow ATLAS on the Web at http://atlas.colorado.edu, and on:

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