

Aaron J. Johnson  
jazzmusicology@gmail.com

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After a twenty plus year dual career as both a jazz musician and telecommunications engineer, at the highest levels of each, I am now committed to becoming a music scholar and educator.

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#### EDUCATION

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<i>Columbia University, New York, NY</i> <b>Ph.D. in Music</b> Dissertation (in progress): "Jazz and Radio in the United States: Mediation, Patronage and Genre" <i>Columbia University, New York, NY</i>	<b>2013</b>
<b>M.Phil. in Music</b> <i>Columbia University, New York, NY</i>	<b>2010</b>
<b>M.A. in Music</b> <i>Georgia Institute of Technology, Atlanta, GA</i>	<b>2009</b>
<b>M.S. in Electrical Engineering</b> Areas of Concentration: Modern Optics, Communications, Electromagnetics <i>Carnegie Mellon University, Pittsburgh, PA</i>	<b>1981</b>
<b>BSEE Electrical Engineering and Economics</b>	<b>1980</b>

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#### AWARDS

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• Faculty Fellowship, Columbia University	<b>2007 – Present</b>
• GEM Fellow (National Consortium for Graduate Degrees for Minorities in Engineering and Science)	<b>1980-1981</b>
• New Jersey State Council on the Arts Music Composition Fellowship	<b>2000</b>

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#### TEACHING EXPERIENCE

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<i>Columbia University, New York, NY</i> <b>Instructor</b> – "Masterpieces of Western Music." Classroom instructor fully responsible for syllabus, assignments, overall course structure, and administration of grades.	<b>2009-2011</b>
<b>Jazz History Lecturer</b> – "Masterpieces of Western Music." Provided lectures and teaching resources and presented live jazz performances in individual sections of the course.	<b>2010-2011</b>
<b>Teaching Assistant</b> – "Masterpieces of Western Music." Assisted instructor in all aspects and taught several sessions.	<b>2009</b>
<b>Teaching Assistant</b> – to Professor Christopher Washburne in "Jazz." Collaborated on curriculum and exam development, taught occasional classes, and graded written work, including final exam papers.	<b>2008</b>
<i>Rutgers University, Newark, NJ</i> <b>Adjunct Instructor</b> – "Low Brass" Gave studio lessons to individual low brass students.	<b>1995-1996</b>

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MUSIC PERFORMANCE HIGHLIGHTS (Trombone, Bass Trombone, Tuba, Shells)

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Steve Turre and Sanctified Shells	Reggie Workman Legacy Ensemble	Smithsonian Jazz Masterworks Orchestra
Frank Lacy Vibe Tribe	Lincoln Center Jazz Orchestra	Count Basie Orchestra
Mingus Big Band	Charles Tolliver	Muhal Richard Abrahms
Ebony Brass Quintet	Reggie Nicholson Brass Project	Jimmy Heath
<i>50th Anniversary Monk at Town Hall Concert</i>	Frank Foster	Alvin Ailey American Dance Theater
Oliver Lake	Gladys Knight	Howard Johnson's Gravity

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## WORK EXPERIENCE

*Telcordia Technologies, Piscataway/ Morristown, NJ*

**Senior Consultant/ Senior Staff Engineer****1999 - 2006**

Consultant and engineer involved in IPTV, Digital Work Design (DWD), Optical Networks, VDSL, and Next Generation Networks in projects in North America, Europe, South America, and Australia.

*Telcordia Technologies, Morristown, NJ*

**Chief Engineer- Telcordia DSL Loop Qualification Service****1999 - 2003**

Created and refined a technical process that formed the basis of a highly successful business that provided voice-modem based DSL loop qualifications. As Chief Engineer, responsible for technical accuracy and capabilities regarding loop qualification. Also responsible for development of new features and services, such as detection of DLC-served loops and innovative modes of operation. Carried out lab and field trials and adaptation of the service to foreign markets such as Greece, Brazil, Japan, France and US Government applications.

*Bellcore (Now Telcordia) Morristown, NJ*

**Member of Technical Staff****1984-1999**

Developed and published industry requirements for Fiber in the Loop (FITL) and Hybrid Fiber Coax (HFC) networks. Co-author of several prominent industry and international standards documents involving access networks and optical fiber cables. Performed technical analyses of products to a variety of generic requirements.

*IIT Research Institute, Annapolis, MD*

**Associate Engineer****1982-1984**

Performed EMC (electromagnetic compatibility) analysis studies relating to unintentional interference between US military systems. These systems included communications systems as well as ground, airborne, and shipboard radar systems.

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 PUBLICATIONS, PAPERS, AND RECORDINGS
 

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## Music Scholarship

- "Trumpet Men: Two Representations of Masculinity in Jazz" at University of Salford Conference- Mediating Jazz, Manchester, UK 2009
- Special Book Review Section on Popular Music (Editor) in *Current Musicology* Spring 2011 Issue
- Chair, Columbia Music Scholarship Conference 2010, "Music and Money: Examining Value in Music."

## Recording Highlights

- Fred Ho, Cal Massey Tribute, 2011
- Aaron J Johnson, *Songs of Our Fathers*, 2009
- Jay-Z, *American Gangster*, 2008
- Charles Tolliver, *Emperor March*, 2009
- Charles Tolliver, *With Love*, 2007
- Oliver Lake, *Cloth*, 2003
- Steve Turre, *Rhythm Within*, 1995
- Salim Washington, *Harlem Homecoming*, 2006
- Nancie Banks, *Bert's Blues*, 1994
- Nancie Banks, *Ear Candy*, 1999

## Technical Publications and Presentations

- "Mode-Field Diameter Measurements for Single-Mode Fibers with Non-Gaussian Field Profiles" *Journal of Lightwave Technology*, 1987.
- "Fusion splicing of dissimilar fibers: A comparison of mode field diameter and cross correlation loss predictions with experimental results." NIST Symposium on Optical Fiber Measurements, 1986 (NBS Special Publication 720.)
- "Hydrogen gas effects on installed submarine single-mode fiber cables," *Proceedings of the 37th International Wire & Cable Symposium*, 1988.
- "Field Measurements of the Effects of Hydrogen Gas on Installed Submarine Single-Mode Fiber Cables," *Proceedings of the 38th International Wire & Cable Symposium*, 1989.
- "Chromatic dispersion temperature dependence of matched-clad, depressed-clad, and dispersion-shifted single-mode fibers," *Proceedings of Society of Photo-Optical Instrumentation Engineers*. 841 (1987).
- "Digital Work Design in the Telecommunications Industry," Delmia User Conference, 2005.
- "Digital Work Design Tools for FTTP," National Fiber Optics Engineers Conference, 2006.

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 LANGUAGES
 

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- English – native language
- German and French –read and write with basic competence.

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 MEMBERSHIPS
 

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- American Musicological Society
- American Federation of Musicians
- International Association of Jazz Educators