

David M. Bashwiner

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Associate Professor of Music
Music Theory Coordinator
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Albuquerque, NM 87131-0001

EDUCATION

University of Chicago
Chicago, IL

Ph.D. in the History and Theory of Music, 2010
Specialization in Music Theory
Dissertation: "Musical Emotion: Toward a
Biologically Grounded Theory"
*Abstract published in Psychomusicology:
Music, Mind, & Brain (vol. 22, no. 2, pp. 189-190)*

University of Illinois at Urbana-
Champaign
Urbana, IL

MMus in Music Composition, 2001
*Winner of the Student Orchestral Composition
Competition, 2000*

Cornell University
Ithaca, NY

AB in Psychology (Concentration in
Biopsychology), 1997
*Distinction in All Subjects
Golden Key National Honors*

UNIVERSITY TEACHING HISTORY

University of New Mexico

Associate Professor of Music, Department of Music
Coordinator of Music Theory
July, 2016-present

University of New Mexico

Assistant Professor of Music, Department of Music
August, 2010-July, 2016

Knox College

Visiting Instructor in Music, Department of Music
2009-2010, 2013

University of Chicago

Whiting Fellow (2008-2009)
Instructor (2005-2007)
Course Assistant (2004-2005)
Writing Lector (2004-2006, 2010)

University of Illinois at Urbana-Champaign	Instructor (2001–2002) Teaching Assistant (1999–2002)
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COURSES TAUGHT AT UNM

Music Theory I	Lower Division
Music Theory II	Lower Division
Music Theory III	Lower Division
Music Theory IV	Lower Division
Advanced Tonal Analysis	Upper Division/Graduate
*Music and Emotion	Upper Division/Graduate
*The Musical Brain	Upper Division/Graduate
*Entering the Twilight Zone: Music & Sound Production for Film (Co-taught with Manny Rettinger)	General/Lower Division
*Music and Multimedia	Upper Division/Graduate
*Introduction to Graduate Music Theory/Analysis for Grads	Graduate (remedial)
*Songwriting (Co-taught with Kristina Jacobsen-Bia)	General/Lower Division
*Writing About Music	Upper Division/Graduate
Sixteenth-Century Counterpoint	Upper Division/Graduate
Eighteenth-Century Counterpoint	Upper Division/Graduate

* *Courses created anew for the University of New Mexico.*

ACADEMIC HONORS AND GRANTS

Grant submitted to the NIH but not received (Jan. 2019):

The Sounds of “Silent” Brain Regions: Music and the Awake Craniotomy

(David M. Bashwiner, Vincent P. Clark, Rex E. Jung, and Muhammad O. Chohan)

Project narrative: While it has become increasingly common in neurosurgical procedures to employ direct electrical stimulation during awake brain mapping, particularly for the identification and protection of regions critical to the language faculty, it is far less common to do so for music-critical regions. Because such procedures are rare, little has been done to establish guidelines for conducting them intraoperatively, nor have the wide variety of potential cognitive tests employed been experimentally validated for effectiveness. The aim of the present project is to address both of these issues: to establish guidelines for conducting music-focused awake brain mapping procedures, and to experimentally validate these procedures, initially in healthy subjects (using transcranial magnetic stimulation) and subsequently in neurosurgical patients (using direct electrical stimulation).

Visiting Fellow, Tufts University (Fall 2017)

CFA Creative and Scholarly Research Grant, 2015. *Article Processing Charge for “Musical Creativity ‘Revealed.’”* Award amount: \$1,450.

This award allowed me to publish an article co-authored with Dr. Rex Jung on the neuroscience of musical creativity. The article has been accepted for publication with *Scientific Reports*. The title of the article is “Musical Creativity ‘Revealed’ in Brain Structure: Interplay Between Motor, Default Mode, and Limbic Networks.”

NEA Research: Art Works, 2013. “Transfer Effects of Music on Brain Structure and Function.” Applied for with Rex Jung (UNM Neurosurgery and Psychology.) Award Amount: \$15,000 [Grant No. 14-3800-7003]

Whiting Fellowship, University of Chicago (Chicago, IL, 2008–2009)

Award Amount: \$27,500 (plus tuition and fees)

This grant provided a complete year of tuition remission and a generous stipend as a means of promoting dissertation completion.

Arthur J. Komar Award, Honorable Mention (Music Theory Midwest, May 15–16, 2009)

Awarded for the paper “What is Musical Syntax? An Evolutionary Perspective.”

PUBLICATIONS

Bashwiner DM, Wertz CJ, Bacon D, Flores RA, Chohan MO, Jung RE. 2020 (submitted for publication). “Resting State Functional Connectivity Underlying Musical Creativity.” *NeuroImage*, special issue on *Creativity and the Brain*.

Bashwiner, David and Donna Bacon. 2020. “Neuroscience: Music and the Brain.” In Steven R. Pritzker and Mark A. Runco (eds.), *Encyclopedia of Creativity*, third edition. Academic Press. <https://doi.org/10.1016/B978-0-12-815614-8.23847-4>.

- Bashwiner, David, and Donna Bacon. 2019. "Musical Creativity and the Motor System." *Current Opinion in Behavioral Sciences* 27: 146-153.
<https://doi.org/10.1016/j.cobeha.2018.12.005>
- David Bashwiner. 2018. "The Neuroscience of Musical Creativity." In Rex Jung and Oshin Vartanian (eds.), *The Cambridge Handbook of the Neuroscience of Creativity*, pp. 495–516. Cambridge, UK: Cambridge University Press. DOI: 10.1017/9781316556238.
- David Bashwiner. "Brain and Music. By Stefan Koelsch [book review]." *Music Theory Spectrum*, Volume 39, Issue 2, 1 October 2017, Pages 269–274, <https://doi.org/10.1093/mts/mtx013>.
- David Bashwiner, Christopher Wertz, Raneé Flores, and Rex Jung. 2016. "Musical Creativity 'Revealed' in Brain Structure: Interplay between Motor, Default Mode, and Limbic Networks." *Scientific Reports* 6, 20182. doi: 10.1038/srep20482 (2016).
- "Attention," published in B. Thompson, ed., *Music in the Social and Behavioral Sciences: An Encyclopedia* (Sage Reference, 2014).
- "Modularity," published in B. Thompson, ed., *Music in the Social and Behavioral Sciences: An Encyclopedia* (Sage Reference, 2014).
- "Tension," published in B. Thompson, ed., *Music in the Social and Behavioral Sciences: An Encyclopedia* (Sage Reference, 2014).
- "Musical Analysis for Multimedia: A Perspective from Music Theory," S.-L. Tan, A. J. Cohen, R. Kendall, and S. Lipscomb, eds., *Psychology of Music in Multimedia* (Oxford University Press, 2013).
- "Musical Emotion: Toward a Biologically Grounded Theory." Dissertation abstract published in *Psychomusicology: Music, Mind & Brain*, Special Issue, Volume 22 (2), 2012.
- Bashwiner, David Michael. 2011. "Lifting the Foot: The Neural Underpinnings of the 'Pathological' Response to Music." In *A Field Guide to a New Meta-Field: Bridging the Humanities-Neurosciences Divide*, edited by Barbara M. Stafford, 239–266. Chicago: University of Chicago Press.

ARTICLES IN PREPARATION

- "The Mechanics of Musical Desire in the Female Plainfin Midshipman; or, What is it Like to be a Toadfish?"

“Have No Fear: The Amygdala in Music Theory”

PUBLIC LECTURES AND PRESENTATIONS AT PROFESSIONAL MEETINGS

Bashwiner DM, Wertz CJ, Bacon D, Flores RA, Chohan MO, Jung RE. “Resting State Functional Connectivity Underlying Musical Creativity.” Poster presented at the Society for the Neuroscience of Creativity (SfNC) annual meeting (San Francisco Conservatory, March 2019).

“The Mechanics of Musical Desire in the Female Plainfin Midshipman; or, What is it Like to be a Toadfish?” (Tufts University, Dec. 6, 2017)
Hour-long lecture presented to the Boston Area Social Cognition group at the Tufts Center for Cognitive Studies

“Musical Creativity and the Dream State” (Cornell University, Nov. 9, 2017)
Lecture presented in Prof. Carol Krumhansl’s course in Music Cognition

“Musical Creativity and the Dream State: A Neuro-Theoretical Model”
Poster presented at the Neurosciences and Music VI Conference (Boston, MA, May 25–28, 2017)

“Musical Creativity and the Dream State: A Neuro-Theoretical Model”
Poster presented at the Society for the Neuroscience of Creativity (SfNC) annual meeting (San Francisco Conservatory, March 24, 2017).

“UNM Study Reveals Musicians’ Brains Are Different” by Katherine Mozzone
KRQE (channel 13) segment on research conducted by myself and Dr. Rex Jung (UNM Neurosurgery). Broadcast March 3, 2017.
<http://krqe.com/2017/03/05/unm-study-reveals-musicians-brains-are-different/>

“This is Your Brain on Music Education”
Talk presented at *Music Prep School Talks!* (UNM, Keller Hall, Feb. 25, 2017).

“*Casino Royale*’s First Chase Sequence in ‘Multi-Score’: Music, Drama, Camerawork.”
Presented at the College Music Society (Santa Fe, NM, Oct. 29, 2016).

“*Casino Royale*’s First Chase Sequence in ‘Multi-Score’: Music, Drama, Camerawork.”
Presented at the Society for Music Theory’s Film and Multimedia Interest Group meeting in St. Louis in Oct. 30, 2015.

“Musical Creativity ‘Revealed’ in Brain Structure: Interplay between Motor, Default Mode, and Limbic Networks.” Presented at the Society for Music Theory’s Music Cognition Interest Group meeting in St. Louis in Oct. 30, 2015. This was a report of the research accepted for publication under the same name by *Scientific Reports*, as well as on the NEA grant award that funded the research.

- “Complex Emotions in Score-Based Multimedia Analysis: Case Studies from *Platoon* and *The King’s Speech*.” Talk presented at SMPC 2015 in Nashville, TN (Aug. 1–5, 2015).
- “Scary Music and the Amygdala.” Skype talk at University Memphis, graduate course in music theory taught by Jeremy Orosz (Feb. 23, 2015).
- “Music and Phobia.” Presented at Sunday Chatter (Albuquerque, NM). A ten-minute presentation to a general audience on the similarities between musical emotions and phobic emotions (May 6, 2014).
- “Music and Neuroscience—Strange Bedfellows?” Paper presented (via Skype) to the Knox College Neuroscience Club, Feb. 25, 2014
- “On Scary Music: The Amygdala and Music Theory,” presented to the Society for Music Theory, Charlotte, NC, Nov. 1, 2013.
- “Musical Creativity and STEM Creativity: A Questionnaire and Structural Imaging Study,” presented to the Society for Music Perception and Cognition, Toronto, Aug. 10, 2013.
- “On Scary Music: The Amygdala and Music Theory,” presented to the Rocky Mountain Society for Music Theory, Flagstaff, AZ, Ap. 6, 2013.
- “On Scary Music: Meditations on Musical Neuroscience,” presented at *Awe, Wonder, & Passion: Music and the Creation of Meaning*, 1st International Symposium for Alternative Academia, Nov. 10–12, 2012, Montreal, Quebec.
- “Musical Manipulation in Film: A Theory of Mechanism,” invited talk presented April 12, 2012, at the Neuro-Humanities Entanglement Conference, Georgia Institute of Technology, hosted by emeritus professor and art historian Barbara M. Stafford.
- “The Syntactic and Statistical Parameters Engage Differently with the Affective Apparatus.” Paper presented at the International Conference on Music and Emotion, Durham, UK, September 2, 2009.
- “What is Musical Syntax? An Evolutionary Perspective.” Paper presented at Music Theory Midwest, Minneapolis, May 15–16, 2009. Winner of an Honorable Mention for the Arthur J. Komar Award.
- “The Function of Musical Syntax and its Role in Musical Emotion.” Poster presented at *The Neurosciences and Music III*, University of Montréal, June 28, 2008.

“Musical Syntax and Musical Meaning: An Evolutionary Perspective.” Paper presented at *EthNoise! 2008 Symposium*, “*Musical Meaning and its Media[ti]on*,” University of Chicago, May 24, 2008.

“Interaction of Speech and Music in the Film Soundtrack.” Paper presented at the conference *Music and the Moving Image*, NYU, Steinhardt School, May 18, 2007

CREATIVE ACTIVITY (PERFORMANCES-STAGE/MEDIA, CONCERTS, RECORDINGS, EXHIBITIONS)

Performance by Goat White (David Bashwiner and Christy Cook) on KNME’s “Colores” Broadcast on NM PBS station KNME on March 7, 2017. Interview by Hakim Bellamy. (<http://www.newmexicopbs.org/productions/colores/march-10-2017/>)

“Canyon” | NPR Tiny Desk Contest Submission 2017 (Video, posted Jan., 2017)

"Jelly Donut" | NPR Tiny Desk Contest Submission 2016 (Video, posted Feb. 2, 2016)
This video submission was received very favorably by the NPR music staff, such that they featured it in a special competition the very next week (called "Big Band, Tiny Desk"), it made it into their top ten list (out of approx. 7,000 total) as well as that of Lagunitas (the contest sponsor). NPR Music/All Songs Considered also used our song as the soundtrack for their compilation video "Desks of the 2016 Tiny Desk Contest." Here's what NPR Music had to say about our video:
We'll spoil some of the video's magic if we tell you too much about this one from Cactus Tractor, a self-proclaimed “bohemian folk pop disco” ensemble from Albuquerque, N.M. Suffice it to say that a jelly donut on a fishing line and the Albuquerque Aerialist Collective are involved —and that you'll be whistling the melody all day.

Links:

"Jelly Donut" (original video):

<https://www.youtube.com/watch?v=rb7F-f7OpAo>

NPR's list of favorite videos:

<http://www.npr.org/sections/allsongs/2016/03/22/470495406/10-more-tiny-desk-contest-entries-we-loved>

Lagunitas's list of favorite videos:

<https://lagunitas.com/tinydeskcontest>

NPR Music's compilation video using our music:

<http://tinydeskcontest.tumblr.com/post/140045214827/we-saw-wilder-desks-than-we-could-ever-have>

Les pouvoirs du cerveau—Notre intelligence dévoilée (Nov., 2015)

A documentary film on the neuroscience of intelligence and creativity in which I made an appearance as a musician and a subject in an MRI scanner. Directed by Amine Mestari and Cécile Denjean, produced by ARTE France and Scientifilms. Released in 2015 in France and Germany, but not yet available in the U.S.

“Canyon” (Ap. 17, 2015)

Performance with Christy Cook at SITE Santa Fe Art Gallery, hosted by the *Collective is Closer to the Truth* Collective (CICTTT).

“Serial 2015” (Mar. 25, 2015)

Work for 4-piece jazz ensemble, performed by Le Chat Lunatique at the John Donald Robb 2015 Composers’ Symposium

“Sympathetic Resonance” (Oct. 3, 2014)

Performance with UNM Prof. Szu-Han Ho at SCA Contemporary Art Gallery, hosted by the *Collective is Closer to the Truth* Collective (CICTTT).

“The Stable Boy” (2014)

Music written, performed, and produced by myself for a medium-length film by Jamieson Stern. (See <https://vimeo.com/91472726>. Use password: Festival 2015)
Official Selection 2015 at the Sunscreen Film Festival

“The Art of Lithography” (2011)

Music written, performed, and produced by myself for a documentary film by Martina Chamrad about UNM’s Tamarind Institute and shown for a several-month period at the National Museum of Women in the Arts in Washington, D.C. The music for this film has also been used in two short films from the same director, an “Asternauts – Behind the Scenes” video (<http://www.facebook.com/video/video.php?v=2270131465932>), and a crowd-funding campaign video (<http://www.indiegogo.com/hjem?a=533243>), the first of which was shown at the Berlin Biennale, 2012.

“Mirror Image” (2011)

Music written, performed, and produced by myself for the film *The Art of Time* by Martina Chamrad. This film was screened seven times in Würzburg (at an annual exhibition and a festival). It has over 4,300 views online. It was also used for two “Asternauts – Behind the Scenes” videos by the same director, which can be found at these links: <http://vimeo.com/28849665>, and <http://www.facebook.com/photo.php?v=2397110335497>. These films were shown at the Berlin Biennale, 2012.

"The Last Recital of Les Ottinger" (2012)

Music written, performed, and produced by myself in 2007 but used for a 2012 film by Martina Chamrad and Manny Rettinger. The film was screened at the Schweinfurter Kurzfilmtage festival of 2012.

Julie (original composition and music video)

The music video “Julie” was displayed at a “Neuro-Salon” in Stubbins Studio at the Georgia Institute of Technology in April, 2012, as part of Barbara M. Stafford’s Neuro-Humanities Entanglement Conference. I additionally presented a

paper at this conference on the relationship between musical and visual perception, which therefore had some bearing on the music video as well.

Performances of note with the band Cactus Tractor (founder and leader)

516 Arts (Sept. 16, 2016)

Santa Fe Bandstand (Aug. 17, 2016)

Outpost Performance Space (Dec. 18, 2015)

Albuquerque Botanic Gardens (Aug. 20, 2015)—over 1,300 people in attendance

Concert for Nepal—helped raise over \$3,500 to rebuild houses in Nepal

BAMM Festival, June 17, 2016

Albuquerque Folk Festival (June 6, 2015; June 4, 2016)

Keshet Dance Company Fundraiser, Ap. 18, 2015

TEDEX Gala Event, Dec. 13, 2014

UNM Prep School, Nov. 1, 2014

UNM Law School Department Party, Oct. 15, 2014

Southwest Regional Folk Alliance (Austin, TX), Sept. 26, 2014

Southwest Regional Folk Alliance New Mexico, March 28, 2014

Arts Adventures Fund- and Awareness-Raiser (March 1, 2014)

Recordings made by the band Cactus Tractor (producer, songwriter, performer)

Cactus Tractor, released Ap. 12, 2014

Lydian Water Songs, released Dec. 18, 2015