

# Bryan D. Mascio

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## Summary

Before pursuing my doctorate, I worked for more than a decade in a variety of alternative school settings in NH. Working with these at-risk teenagers, I served as a teacher, mentor, and sometimes surrogate parent; every day, I knew that I had done something good and important. Now that I have left my classroom I am determined to be a part of something equally valuable – contributing to the knowledge base and development of other educators, who will go on to touch the lives of students.

## Education

- **Doctorate of Education – Human Development and Education:** Harvard Graduate School of Education, Anticipated May 2018
  - This program focuses on understanding education and learning in a dynamic manner and conducting research that will be both informed by, and instructive for, practice.
  - Dissertation (in progress) – Learning to Teach: A Mixed Method Study of Developing Teaching Skills During the Internship
    - Committee – Dr. Sara Lawrence-Lightfoot, Dr. Tina Grotzer, Dr. Hunter Gehlbach, Dr. Pasi Sahlberg
  - Qualifying Paper – Working Memory Assessments: Going Beyond Auditory and Visual Representations, to Include Sub-Skill Processes
    - Committee – Dr. Gigi Luk, Dr. Kurt Fischer, and Dr. Hunter Gehlbach
- **Education Master’s – Mind, Brain and Education:** Harvard Graduate School of Education, May 2013
  - This program focused on applying Dynamic Systems Thinking to education, by integrating neuroscience, psychology and education.
  - Research projects included laboratory-based psychological studies as well as neuroimaging studies.
- **Post-Master’s Certificate – Educational Leadership and Administration:** Antioch University New England, September 2009
  - This program focused on transformational leadership, teacher professionalism and innovative models of administration.
  - Action Research Project focused on the development of the College Bound program at the Robert J. Lister Academy for first-generation college attendance
  - State of New Hampshire Principal Certification
- **Master’s of Education – Special Education:** University of New Hampshire, September 2005
  - This program focused on educational theory and research in order to prepare special educators that can identify and advocate for student needs, create lessons and programs for a diverse population of students, as well as collaborate with other educators in traditional classrooms.
  - Master’s Project focused on grading in alternative schools for students with behavioral difficulties and included a survey of alternative schools in Southern NH.
  - State of New Hampshire Teaching Certification – General Special Education
- **Bachelor’s of Science – Adult and Occupational Education:** University of New Hampshire, May 2000 with a minor in Philosophy
  - This program combined technical background with concepts of pedagogy and curriculum design.
- **Associates of Applied Science – Applied Animal Science:** Thompson School of Applied Science, University of New Hampshire, May 1996.

## Educator Experience

- **University of New Hampshire, Intern Supervisor:** Beginning Fall 2017
  - Will teach and assess interns in the elementary education program, while collaborating with their mentoring teachers
- **University of New Hampshire, Presenter:** September 2016 – Present
  - Taught the use of social perspective taking in the classroom to interns in special education and elementary education programs
- **Harvard Graduate School of Education, Instructor:** Spring 2015
  - “Fundamentals of Learning & Teaching as Cognitive-Developmental Skills”
  - Designed and co-taught novel course for graduate students
- **Harvard Graduate School of Education, Teaching Fellow:** Jan 2014 – May 2016
  - With Dr. Kurt Fischer, “Cognitive Development, Education, and the Brain”
  - With Dr. Pasi Sahlberg, “International Lessons of Successful Education Systems”
  - With Dr. Pasi Sahlberg, “The Teaching Profession Around the World”
  - With Dr. Tina Grotzer, “Applying Cognitive Science Principles to Learning and Teaching”
- **Robert J. Lister Academy, Teacher:** July 2004 – June 2012
  - Guided and mentored at-risk students as they worked towards their future aspirations
  - Created and implemented an innovative year-long interdisciplinary curriculum that includes international travel, online multimedia and social media, as well as an entrepreneurial approach to fundraising. (See [www.CostaRicaBryan.blogspot.com](http://www.CostaRicaBryan.blogspot.com))
  - Initiated and operated a College Bound program in conjunction with Great Bay Community College providing support for students to prepare and transition to post-secondary education
  - Facilitated district-wide meetings such as Critical Friends Groups, subject area Professional Learning Communities, and summer institutes
  - Designed and taught a variety of classes in the sciences and humanities
- **Great Bay Community College, Instructor:** Spring 2007 – May 2012
  - Contributing member of the committee that redesigned and aligned the “For Your Education” curriculum, including the one-credit and three-credit courses
  - Designed and taught curriculum for “Essential Skills for College Success” course, equipping students with college and professional skills
- **Londonderry High School, EH Program:** August 2003 – June 2004
  - Designed and implemented a new self-contained program for students with significant emotional and behavioral difficulties
  - Coordinated with students, their previous placements and outside support systems to facilitate their behavioral and academic improvement
- **Portsmouth School District, Contracted Transition Specialist:** April 2003 – June 2003
  - Established an innovative grant-funded program to support middle school students with significant behavioral concerns as they transition to the high school
  - Met with and provided services to students, families, teachers, specialists, administrators and outside agencies to create comprehensive transition plans
- **Odyssey House, Teacher:** February 2001 – March 2003
  - Designed and implemented multidisciplinary curriculum and intervention strategies to address the needs of court-ordered, residentially placed teenagers
- **Charmingfare Farm, Education Coordinator:** March 2000 – Feb. 2001
  - Created and directed experiential programs and presentations for schools, the general public, New Hampshire Fish and Game, and other organizations
- **Thompson School of Applied Science, Instructor:** Fall 1997
  - Designed and taught curriculum for a “Keys to Success” course, to assess and advance student study skills to lead to increased success in their vocational program

## Research Experience

- **Researcher, Dissertation:** September 2015 – present  
Harvard Graduate School of Education
  - Work in collaboration with the University of New Hampshire
  - Longitudinal study of interns learning the cognitive-social-emotional-skills of teaching
- **Researcher, Teaching Brain Project:** September 2013 – present  
Harvard Graduate School of Education
  - Work originated in Dr. Kurt Fischer's Dynamic Development Lab, and continues in conjunction with Dr. Vanessa Rodriguez at New York University
  - Studying the cognitive skills and awarenesses of teachers
  - Designing and conducting study of physiological synchrony in teacher-student dyads
- **Researcher, Social Perspective Taking for Teachers:** June 2013 – present  
Harvard Graduate School of Education
  - Working with Dr. Hunter Gehlbach
  - Designing and conducting research project on training teachers in Social Perspective Taking
- **Lab Member, Brain Experience & Education Lab:** September 2012 – December 2015  
Harvard Graduate School of Education
  - Worked in the lab of Dr. Gigi Luk
  - Certified to operate the functional Magnetic Resonance Imaging (fMRI) scanner in the Center for Brain Science at Harvard University
  - Designed novel tasks for, and ran fMRI scanner for Dr. Luk's Expertise Project, investigating the overlapping behavioral profile and neural networks in groups that sustain different behavioral training
- **Researcher, Panorama Education Team:** December 2013 – June 2015  
Harvard Graduate School of Education
  - Worked with Dr. Hunter Gehlbach
  - Developed a new survey scale for the constructs of Grit, Mindset, and Learning Strategies
  - Survey scale process included in-depth literature review, focus groups with students, surveying of experts in related fields, conducting cognitive interviews with students, and piloting the scales.
- **Independent Study, Educational Neuroscience Lab:** September 2012 – June 2013  
Harvard Graduate School of Education
  - Worked in the lab of Dr. Jenny Thomson
  - Ran a transcranial Direct Current Stimulation (tDCS) study investigating its effect on phonemic skills, using a computer-based task of my design
  - Assisted with an Event Related Potential (ERP) study investigating differences in Rapid Naming between English-Monolinguals and English-Spanish-Bilinguals
- **Volunteer, System Neuroscience of Psychopathology Lab:** Summer 2012  
Harvard University, Psychology Department, Center for Brain Science
  - Worked in the lab of Dr. Joshua Buckholtz
- **Teacher and Action Researcher:** February 2001 – June 2012  
Variety of public and private school systems in New Hampshire
  - Created and implemented science curriculum for at-risk teenagers, focusing on scientific method and inquiry
  - Conducted data collection and action research as a continuous part of classroom improvement
- **Research Technician, Animal Resource Office:** July 1996 – March 2000  
University of New Hampshire, a branch of the Office of Sponsored Research
  - Supported research in a variety of fields including microbiology, psychology, biochemistry

## Scholarly Publications & Presentations

- DeLyser, L. A., Mascio, B., Finkel, K. (2016, October). *Introducing Student Assessments with Evidence of Validity for NYC's CS4All*. In Proceedings of the 11th Workshop in Primary and Secondary Computing Education. ACM.
- Mascio, B. (manuscript submitted). *Can You Just Tell Me? A Portrait of Becoming A Teacher*.
- Mascio, B. (2017, April). *Working Memory Assessments – Going Beyond Auditory and Visuals*. Paper presented at New England Educational Research Organization, Portsmouth, New Hampshire.
- Mascio, B., Loiwal, V., Hingorani, S., Pindell, A. (2017, April). *The Power Of Recess – Voices From One School's "Experiment" With Additional Unstructured Time For Students*. Paper to be presented at American Educational Research Association, San Antonio, Texas.
- Mascio, B., McIntyre, J., & Gehlbach, H. (manuscript submitted). *Morphing Mindset: Expanding the Construct and Re-Conceptualizing Its Measurement*.
- Mascio, B., McIntyre, J., & Gehlbach, H. (manuscript submitted). *Social perspective taking: A professional development induction to improve teacher-student relationships and student learning*.
- Rodriguez, V., Mascio, B. (manuscript submitted). *Five Awarenesses of Teaching: A Framework of Social-Emotional Cognition From Interviews With Expert Teachers*.
- Rodriguez, V., Mascio, B. (chapter submitted). *What is the Skill of Teaching? A New Framework of Teachers' Social Emotional Cognition*.
- Schueler, B., McIntyre, J., Suh, W., Mascio, B. & Gehlbach, H. (2015, November). *Measuring Student Perceptions of Teacher Pedagogical Effectiveness: The Development of a New Student Survey Tool*. Paper presented at Association for Public Policy Analysis and Management, Miami, Florida.
- Schueler, B., McIntyre, J., Mascio, B., Viola, J., Orzech, A., Cahen, M., & Gehlbach, H. (2015, March). *Improving Student Survey Validity through a Unique Tool Development Process*. Paper presented at the Society for Research on Educational Effectiveness, Washington D.C.
- Thomson, J. M., Doruk, D., Mascio, B., Fregni, F., & Cerruti, C. (2015). *Transcranial direct current stimulation modulates efficiency of reading processes*. *Frontiers in Human Neuroscience*, 9.

## Practitioner Publications & Presentations

- **Professional Development Workshops:** August 2014 - present
  - Topics include: working with behaviorally challenging students, student mindset, and project-based teaching
  - Presented in various public, private and charter schools - primarily in New England
- **“True Teaching Expertise: The Weaving Together of Theory and Practice”:** Summer 2016
  - Published in *American Educator*, <http://www.aft.org/ae/summer2016/mascio>
  - Reprinted by Education Digest, November 2016
  - Teaching expertise requires learning of both developmental and pedagogical theories as well as clinical experience, to best teach for the benefit of all students
- **“Who Are (And Should Be) The Teaching Experts?”:** November 2105
  - Published by Albert Shanker Institute, <http://www.shankerinstitute.org/blog/mascio>
  - Distinguishes between the expertise of researchers in education-related fields, and the expertise of practitioners themselves.
- **“Teaching = Thinking + Relationship”:** May 2015
  - Published by Albert Shanker Institute, <http://www.shankerinstitute.org/blog/bmascio>
  - Illuminates the cognitive and relational skills of teaching, in contrast to the common focus on teachers' observable behaviors.

## Awards & Recognitions

- **Graduate Student Award for Excellence in SEL Research:** 2017, American Educational Research Association SEL SIG
  - Outstanding research, for the paper *Measuring Mindset: Revisiting the Construct and Expanding Measurement to Develop a New Student Questionnaire Scale*.
- **Dean's Summer Fellow:** 2015, Harvard Graduate School of Education
  - Doctoral students and faculty support for summer work leading to a publishable paper, *Morphing Mindset: Expanding the Construct and Re-Conceptualizing Its Measurement*.
- **Chester Pierce Fellow:** 2013, Harvard Graduate School of Education
  - Intellectual Contribution/Faculty Tribute Award for the Mind, Brain and Education program
- **President's Good Steward Award:** 2012, Campus Compact for New Hampshire
  - On behalf of Robert J. Lister Academy, enhanced the quality of life in the community in meaningful and measurable ways and engaged in the development of sustained, reciprocal partnerships with Great Bay Community College
- **President's Community Partner Award:** 2010, Campus Compact for New Hampshire
  - Member of Great Bay Community College contributing professional expertise in service to the wider community

## Selected Teacher Training & Conferences

- **The Science of Emotions and Learning in the Classroom:** April 2012, sponsored by Learning & the Brain, this conference featured leading researchers connecting emotional state with education and neuroscience
- **Preparing 21st Century Minds: Using Brain Research to Enhance Cognitive Skills for the Future:** November 2011, sponsored by Learning & the Brain, this conference featured leading researchers connecting education with neuroscience
- **Critical Skills Institute:** July 2011, hosted by the Antioch Center for School Renewal, this course trained teachers to create a classroom that integrates problem-based, experiential, collaborative, and standards-driven learning
- **Brain-Based Teaching in the Digital Age:** May 2011, hosted by LearningForward NH, Marilee Sprenger's workshop used her text of the same name to share teaching methods that are aligned with new understandings in neuroscience
- **Progress in Progressive Education Symposium:** June 2010, hosted by the Putney School in Putney, Vermont, this symposium featured keynote speakers Howard Gardner, Alfie Kohn, and Tom Wessels
- **Facilitator - Critical Friends Group:** July 2007, Certified by National School Reform Faculty, allowed for the facilitation of district wide CFGs
- **The Anja S. Greer Conference on Secondary School Mathematics, Science and Technology:** June 2007, innovative science curriculum, Phillips Exeter Academy
- **Heads Together 2007:** January 2007, New Hampshire conference on improving graduation rates and preparing youth for the workforce, sponsored by NH Department of Education
- **Project Wild, Project Wet & Project Wild Aquatic:** September 2006 & March 2001, Department of Fish and Game's multidisciplinary curriculum
- **NSTA Annual Conference:** April 2006, variety of workshops at the National Science Teacher's Association conference in Anaheim, CA
- **Environmental Education:** Summer 2005, intensive seminar designed as part of UNH's Master's in Environmental Education
- **Facing History and Ourselves:** March 2001, teaching the holocaust and other human rights events as a means to develop an understanding of history in an interdisciplinary way
- **Math Their Way:** August 2001, using experiential teaching techniques in mathematics
- **Delta Society:** April 1999, trained and certified in the use of animals in therapy and education