

## **Curriculum Vitae**

### **Melissa Kagle**

#### **Education**

Ed.D. Harvard University, Graduate School of Education  
Cambridge, MA,  
Doctorate in Education

M.Ed. Harvard University, Graduate School of Education  
Cambridge, MA  
Masters in Education

Math/Science Mills College  
Teaching Oakland, CA,  
Credential Math/Science Teacher Preparation Program

B.A. Grinnell College  
Grinnell, IA  
Bachelor of Arts in Biology

#### **Research and Evaluation**

Senior Research Associate, KSTF, Mooresville, NJ - 2016-present  
Internal evaluation of KSTF programs, external funding evaluation and grant-writing

Senior Research Associate, WestEd, Boston, MA – 2007-2009  
Researcher with US Department of Education Regional Education Lab  
Program Evaluation for NSF education programs, teacher education at Montclair State University, and other contracts

University of Alaska Fairbanks – 2004-2006  
Term Assistant Professor, Yup'ik Math Project

Harvard University, Graduate School of Education – 2003-2004  
Project ASSERT (Assessing Strengths and Supporting Effective Resistance), Doctoral research practicum with Professors Wendy Luttrell and Janie Ward

Assistant to Anna Richert, Mills College, Spencer research on school reform – 1993-1994

## **Leadership**

Senior Program Associate, WestEd, Boston, MA – 2007-2009

Professional development for districts adopting WestEd school reform model based on developing standards and related assessments, and tiered instruction; facilitator for statewide math coaches' training

University of Massachusetts, Boston – 2003-2004

Instructor, Boston Public Schools Principal Fellows Program

National Facilitator for School Reform Initiatives, 2001-2009

Trained educators to use professional learning communities to increase student achievement

## **Teaching Experience**

### **University Teaching**

Colgate University, Hamilton NY – 2009-present

Assistant Professor of Educational Studies

Director, Math/Science Teacher Education

Faculty in Native American Studies Department

Dartmouth College, Hanover NH – 2014

Visiting Assistant Professor in the Department of Education

University of Alaska Fairbanks – 2004-2006

Term Assistant Professor, Yup'ik Math Project

Harvard University, Graduate School of Education, Cambridge, MA – 2003-2004

Teaching Fellow in Administration, Planning and Social Policy

Harvard University, Graduate School of Education, Cambridge, MA – 2003-2004

Supervisor, Math/Science Beginning Teachers

Upper Valley Educator's Institute, Lebanon, NH – 2003-2004

Supervisor, Math/Science Pre-Service Teachers

### **K-12 Teaching**

Hartland Elementary School, Hartland, VT – 2001-2002  
Middle school mathematics teacher, low-income rural K-8 public school

Dzantik'l Heeni Middle School, Juneau, AK – 1996-2001  
Grades 6-8 mathematics and science teacher, urban public middle school, using project-based learning

Camp Water, Juneau, AK – Summers, 1997-1998 & 2001-2003  
NSF-funded program for Alaska Native students bringing together Western and Native approaches to learning math and science; wilderness canoe trips and time at Tlingit elder-run culture camps

Santa Fe High School, Santa Fe, NM – 1995-1996  
High school science teacher in program for at-risk students, urban public high school

Berkeley High School, Berkeley, CA – 1993-1995  
High school biology and English as a Second Language teacher, urban public high school

Oakland Street Academy, Oakland, CA – 1992-1993  
High school physical science teacher, program for at-risk youth

### **School Transformation**

School Reform Initiative VT – 2002-2013  
Promoted professional learning community and collaborative leadership approaches throughout Vermont through professional development, school change/leadership coaching, statewide policy and advocacy work, and grant writing/making.

DataWise, Harvard Graduate School of Education – 2004-2007  
Development and dissemination of model for using data to improve instruction.

### **Consultant Services**

- National Facilitator, teacher professional development, National School Reform Faculty, 2001-2012
- External Evaluator for Bay and Paul Foundation education grants, 2009-2011
- External Evaluator for Relay Graduate School of Education application to the State University of New York State for accreditation as a graduate school for teacher certification, 2012
- External Evaluator for TeacherU application to the State University of New York State for accreditation as a graduate school for teacher certification, 2010
- School Change Coach at two high schools in Vermont, 2006-2009
- Workshops for school administrators and leaders on Building a Local Accountability System with Standards, Assessments, and Standards-Based Instruction for numerous communities in New Hampshire, Massachusetts, and Rhode Island, 2007-2009

- Facilitator for the Massachusetts Department of Education Math Leaders workshop series, 2007-2008

## **Publications**

### **Publications - Refereed**

- Kagle, M. & Baptiste, A. (2016) Predicting the Quality of Climate Change Research in the Arctic, *Journal of Environmental Studies and Sciences*
- Kagle, M. (2014) Professional Learning Communities for Pre-Service Teachers, *National Teacher Education Journal*, Spring 2014
- Kagle, M. (2014) Seal Meat in the Classroom: Indigenous Knowledge and School Mathematics in Adeniji-Neill, D. and Van Wyk, B., eds., *Indigenous Concepts in Education*, New York: Palgrave-Macmillan
- Kagle, M. (2013) Becoming Culturally Responsive: A framework for teacher development, *Association for Liberal Arts Colleges for Teacher Education (AILACTE) Journal*, 10(1).
- Louie, J., Sanchez, M.T., North, C., Cazabon, M., Mello, D. and Kagle, M. (2011) *A Descriptive Analysis of State Supported Formative Assessment Initiatives in New York and Vermont*, Washington, DC: Institute for Educational Sciences
- LaPointe, M., Brett, J., Kagle, M., Midouhas, E. and Sanchez, M. (2008) *How state education agencies in the Northeast and Islands Region support data-driven decisionmaking in districts and schools*, Washington, DC: Institute for Educational Sciences
- Kagle, M. et. al., (2007) *Building a Smokehouse: The Geometry of Prisms*, Part of the Series Math in a Cultural Context: Lessons Learned from Yup'ik Eskimo Elders, Calgary, AB: Detselig Enterprises
- Adams, B. and Kagle, M. (2007) *Star Navigation: Exploration into Angles and Measurement*, Part of the Series Math in a Cultural Context: Lessons Learned from Yup'ik Eskimo Elders, Calgary, AB: Detselig Enterprises
- City, L., Kagle, M. and Teoh, M. (2005) Examining Instruction in *Data Wise: A Step-by-Step Guide to Using Assessment Results to Improve Teaching and Learning*, Cambridge, MA: Harvard Education Press

### **Institutional Reports and In-House Publications**

- Johnston, K. and Kagle, M. (2012) *TEAC Inquiry Brief for Teacher Education Accreditation*, Colgate University.
- Kagle, M. (2012) *Report to the Bay Paul Foundation: A Framework for the Use of School Change Coaching For Collaborative Leadership Practices*
- Kagle, M. (2010) *Report to the State Education Department, University of the State of New York, External Review of the Application for Registration of a New Teacher Education Program, TeacherU*, New York, NY
- Dunne, K. and Kagle, M. (2008) *Pathways of learning for mathematics coaches: a toolkit for mathematics leaders*, Boston, MA: Massachusetts Department of Elementary and Secondary Education

- Kagle, M. (2010)
- Kagle, M. and Spang, E. (2009) *Evaluation of the Prudential Scholars Science/Math Teacher Preparation Program at Montclair State University: Report to the Prudential Foundation*, Newark, NJ
- Lacireno-Paquet, N. et. al. (2008) *An Evaluation of the Quebec Community Learning Centers: An English Minority Language Initiative*, WestEd

### **Refereed Papers**

- Kagle, M. (2013) *Becoming Not Not Inuit: Mimetic Space in the Classroom*, paper delivered at American Educational Research Association Conference, New Orleans, LA
- Kagle, M. (2011) *When Culturally Based Teaching Makes Things Worse: the case of a young, White teacher in Alaska*, paper delivered at American Educational Research Association Conference, New Orleans, LA
- Kagle, M. (2010) *Addressing the Urban Teacher Crisis: The Possibilities and Pitfalls of University-District Partnerships for Teacher Preparation*, paper delivered at American Educational Research Association Conference, Denver, CO
- Kagle, M. (2010) *Making Space for Community Culture in the Classroom: The Need for Critical Evaluation of the Implementation of Culturally Relevant Teaching*, paper delivered at the annual meeting of the New York State Foundations of Education conference, Oneonta, NY
- Kagle, M. (2009) *Becoming Culturally Responsive: A Model for the Developmental Trajectory of Culturally Responsive Pedagogies*, paper delivered at the American Educational Research Association, San Diego, CA
- Kagle, M. (2008) *Math in a Cultural Context*, paper delivered at the National Council of Teachers of Mathematics Research Session, Salt Lake City, UT
- Dunne, K. and Kagle, M. (2008) *Collaborative Teaching in Mathematics: Enhancing Teacher Practice*, paper delivered at the National Council of Mathematics Teachers, Salt Lake City, UT
- Kagle, M., Lipka, J., and Andrews-Ihrke, D. (2006) *Math in a Cultural Context: Lessons Learned from Yup'ik Elders*, paper presented at the American Education Research Association, San Francisco, CA
- Lipka, J. et. al., (2005) *The Cultural Context of Mathematics Instruction*, paper presented at the Research Session, National Council of Teachers of Mathematics, Anaheim, CA