

# Keri Duncan Valentine

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604-J Allen Hall  
West Virginia University  
Morgantown, WV 26506

## EDUCATION

- 2014      Ph.D. Learning, Design, and Technology, The University of Georgia  
            Dissertation: Problematizing Space and Perspective: A Middle School Mathematics Experience
- 2002      M.Ed. Middle School Education, The University of Georgia  
            Specializations: Science Education, Mathematics Education
- 1997      A.B. Comparative Religion, The University of Georgia

## PROFESSIONAL LICENSE

Clear Renewable Georgia Educator Teaching License, Level 5 Master  
Areas: Early Childhood Education (P-5), Middle Grades (4-8) in Language Arts, Math, Science, and Social Science

## POSITIONS HELD

- 2014 – Pres.    **Assistant Professor**, Department of Curriculum and Instruction/Literacy Studies, College of Education and Human Services, West Virginia University, Morgantown, WV.
- 2011 – 2013    **Teaching Assistant**, Department of Educational Psychology and Instructional Technology, College of Education, The University of Georgia, Athens, GA.
- 2010 – 2014    **Research Assistant**, Department of Educational Psychology and Instructional Technology, College of Education, The University of Georgia, Athens, GA.
- 2008 – 2010    **Classroom Teacher (Grades 5-6)**, Poughkeepsie Day School, Poughkeepsie, NY.
- 2008 – 2008    **Professional Development Writer**, Kaplan K12, New York, NY.
- 2007 – 2007    **Acuity Specialist Trainer**, McGraw Hill/CTB, New York, NY.
- 2004 – 2007    **Math and Science School Support Specialist**, Clarke County School District, Athens, GA.
- 2002 – 2004    **Classroom Teacher (Grade 5)**, Chase Street Elementary School, Athens, GA.

## RESEARCH AND SCHOLARSHIP

### IN PROGRESS

**Valentine, K. D. (PI)**, Jadud, M. (co-PI), Howley, Caitlin (co-PI), (2017-2020). *Exploratory Integration: Cultivating STEM-CRCT Connections*. National Science Foundation – Computer & Information Science & Engineering (\$1,250,000).

### FUNDED PROJECTS (TOTAL \$59,079)

Valentine, K. D. (2015-2016). *Design thinking in an informal STEAM learning environment*. West Virginia University Senate Research and Scholarship Grant. (\$34,079).

Valentine, K. D. (2013-2014). *Problematizing space and perspective*. The University of Georgia Dissertation Completion Award. (\$25,000).

### PUBLICATIONS

#### Peer-reviewed Journal Articles

**Valentine, K. D.**, Bolyard, J. (under development). Lived moments of shift in prospective elementary teachers' mathematical learning. *Journal of Mathematics Teacher Education*.

**Valentine, K. D.**, Jensen, L. J. (under development). Design activity in summer youth camps focused on game design. *International Journal of Technology and Design Education*.

**Valentine, K. D.**, Kopcha, T. J. (under development). Manifestations of learners' problematization activity using *Flatland* in middle school mathematics: A case of embodied cognition. *Journal for Research in Mathematics Education*.

**Valentine, K. D.**, Jadud, M. C., Burt-Kinderman, J., Riley, S. (in review, Nov. 1, 2016). Culturally relevant computational thinking: A framework for supporting pre- and inservice teachers. *Computer Science Education*.

**Valentine, K. D.** (in press). Investigating interdimensional relationships. *Mathematics Teaching in the Middle School*.

Selmer, S., **Valentine, K.**, Luna, M., Rummel, S., Rye, J. (2016). How can we best use our school garden space? Exploring the concepts of area and perimeter in an authentic learning context. *Australian Primary Mathematics Classroom*, 21(4), 3-10.

**Valentine, K. D.** & Kopcha, T. J. (2016). The embodiment of cases as alternative perspective in a mathematics hypermedia learning environment. *Educational Technology Research & Development*, 64(6), 1183-1206.

### **Edited Scholarly Book**

**Valentine, K. D. & Jensen, L. J.** (Eds.) (2016). *Examining the evolution of gaming and its impact on social, cultural, and political perspectives*. Hershey, PA: IGI Global.

### **Scholarly Book Chapters**

**Valentine, K. D. & Jensen, L. J.** (2016). Jamming econo: The phenomenon of perspectival shift in indie video games. In **K. D. Valentine & L. J. Jensen** (Eds.), *Examining the evolution of gaming and its impact on social, cultural, and political perspectives*. Hershey, PA: IGI Global.

Jensen, L. J. & **Valentine, K. D.** (2016). The time our kids cheered Proteus and other stories: A preface to examining the evolution of gaming and its impact on social, political, and cultural perspectives. In **K. D. Valentine & L. J. Jensen** (Eds.), *Examining the evolution of gaming and its impact on social, cultural, and political perspectives*. Hershey, PA: IGI Global.

Jensen, L. J., Barreto, D., & **Valentine, K. D.** (2016). Toward broader definitions of 'video games': Shifts in narrative, player goals, subject matter, and digital play environments. In **K. D. Valentine & L. J. Jensen** (Eds.), *Examining the evolution of gaming and its impact on social, cultural, and political perspectives*. Hershey, PA: IGI Global.

Kopcha, T. J. & **Valentine, K. D.** (2013). A framework for developing robust online professional development materials to support teacher practice under the Common Core. In D. Polly (Ed.), *Common core mathematics standards and implementing digital technologies* (319-331). Hershey, PA: IGI Global.

**Valentine, K., & White, D. Y.** (2006) Examining teacher questioning through a probability unit. In C. W. Langrall (Ed.), *Teachers engaged in research: Inquiry into mathematics classrooms in grades 3-5* (pp.155-177). Greenwich, CT: Information Age Publishing.

### **Book Reviews**

**Valentine, K. D. & Kopcha, T. J.** (2013). [Review of the book *Conducting educational design research* by Susan McKenney and Thomas C. Reeves, New York, NY: Routledge, 2012, 244 pages.] In *Educational Media International*.

### **Invited Journal Articles (Not Peer-reviewed)**

**Valentine, K. D.** (2014). The 2013 AECT intern experience: Memories of minions, crap detectors, and busy feet. *TechTrends*, 58(6), 8-9.

### **Published Conference Proceedings and Manuscripts (Peer-reviewed)**

- Bolyard, J., **Valentine, K. D.** (2017, April). *Mathematical learning experiences: Leveraging elementary pre-service teachers' existing perspectives to support new understandings*. Paper presentation at the American Educational Research Association, San Antonio, TX. (AERA Paper Repository)
- Valentine, K. D.** (2016, April). *Manifestations of middle school learners' problematization activity using flatland as a case of alternative perspective*. Paper presented at the American Educational Research Association, Washington, DC. (AERA Paper Repository)
- Valentine, K. D., & Kopcha, T. J.** (2014, June). Middle school learners' ontological 'trying on' of dimensions: A phenomenological investigation. In J. Polman, E. Kyza, K. O'Neill, & I. Tabak (Eds.), *Proceedings of the 11th International Conference of the Learning Sciences (ICLS - 2014)*. Paper presented at the International Society of the Learning Sciences, Boulder, CO (pp. 745-752).
- Walker, B., **Valentine, K. D.**, Branch, R. (2011). Non-negotiable tenets of instructional design...and ADDIE, too. In *Proceedings of Design, Development and Research Conference 2011*. Paper presented at the Design, Development and Research Conference, Cape Town, South Africa.

### **Dissertation**

- Valentine, K. D.** (2014). *Problematizing space and perspective: A middle school mathematics experience* (Doctoral dissertation, The University of Georgia). Retrieved from The University of Georgia Library Electronic Theses and Dissertations. (Record No. 13472). [https://getd.libs.uga.edu/pdfs/valentine\\_keri\\_d\\_201408\\_phd.pdf](https://getd.libs.uga.edu/pdfs/valentine_keri_d_201408_phd.pdf).

### **Technology Design and Development**

- Valentine, K. D.** (2012). *Space and perspective*. [Webpage: Space and Perspective] <http://spaceandperspective.com/>.
- Kopcha, T. J., **Valentine, K. D.** (2010). *Fractions to the core: Teaching for conceptual understanding*. [Webpage: Fractions to the Core] <http://tothecore.coe.uga.edu/>.

## JURIED SCHOLARLY PRESENTATIONS AT PROFESSIONAL MEETINGS

### National and International

- Valentine, K. D.**, Olson, L.D., Jensen, L.J. (under review). *Patterns of computational thinking in a tabletop game design camp*. Paper presentation at the Annual Meeting of the Association for Educational Communications and Technology International Convention, Jacksonville, FL.
- Jensen, L. J., **Valentine, K. D.** (under review). *The cultural phenomenon of playing Pokémon Go: A phenomenological investigation*. Paper presentation at the Annual Meeting of the Association for Educational Communications and Technology International Convention, Jacksonville, FL.
- Valentine, K. D.**, Bolyard, J. (2017, May). *Collaborative phenomenological writing: Using van Manen's anecdotes to explicate preservice teachers' shifts towards mathematics*. Paper presentation at the Thirteenth International Congress of Qualitative Inquiry, Urbana-Champaign, IL.
- Valentine, K. D.**, Jensen, L. J. (2017, May). *Pokétalk: Variations in Pokémon go discourse during phenomenological interviews*. Paper presentation at the Thirteenth International Congress of Qualitative Inquiry, Urbana-Champaign, IL.
- Valentine, K. D.**, Bolyard, J. (2017, February). *The good, bad, and complex: Understanding and leveraging elementary preservice teachers' mathematics experiences*. Paper presentation at the Annual Conference of the Association of Mathematics Teacher Educators, Orlando, FL.
- Valentine, K. D.**, Jensen, L. J., Olson, L. D., & Thomas, J. S. (2016, October). *Dimensions of design activity in a tabletop game design camp*. Paper presentation at the Annual Meeting of the Association for Educational Communications and Technology, Las Vegas, NV.
- Bolyard, J., Campbell, M., Selmer, S., **Valentine, K. D.** (2016, January). *Integrated STEM initiatives: Issues, challenges, and opportunities for mathematics teacher education*. Facilitated session at the Association of Mathematics Teacher Educators, Irvine, CA.
- Valentine, K. D.**, Jensen, L. J. (2015, November). *A framework for investigating game-design activity: Relating design practices and design thinking*. Poster presentation at the Annual Meeting of the Association for Educational Communication and Technology, Indianapolis, IN.
- Gardner, R. P., **Valentine, K. D.** (2015, May). *Socio-spatial reflexivity: Window into our discursive interactions*. Paper presentation at the Eleventh International Congress of Qualitative Inquiry, Urbana-Champaign, IL.

- Valentine, K. D.**, Kopcha, T. J. (2014, November). *A conjecture map for designing learning experiences in middle school mathematics*. Paper presentation at the Annual Meeting of the Association for Educational Communications and Technology (AECT) International Convention, Jacksonville, FL.
- Jensen, L., Barreto, D., **Valentine, K. D.** (2014, November). *Toward a new definition of “video games:” Shifts in narrative and player goals in digital play environments*. Paper presentation at the Annual Meeting of the Association for Educational Communications and Technology (AECT) International Convention, Jacksonville, FL.
- Kopcha, T. J., **Valentine, K. D.** (2014, November). *Using implementation failure to design animated classroom stories for professional development in elementary mathematics*. Paper presentation at the Annual Meeting of the Association for Educational Communications and Technology (AECT) International Convention, Jacksonville, FL.
- Valentine, K. D.**, Kopcha, T. J. (2014, June). *Middle school learners’ ontological ‘trying on’ of dimensions: A phenomenological investigation*. Paper presentation at the 11<sup>th</sup> International Conference of the Learning Sciences, Boulder, CO.
- Kopcha, T. J., Choi, I., **Valentine, K. D.**, Thomas, G., Lee, Y., Park, H. (2014, February). *Applying gaming principles and open-source tools to course redesign*. Paper presentation at the Conference on Higher Education Pedagogy, Blacksburg, VA.
- Valentine, K. D.**, Kopcha, T. J. (2013, October). *Designing cases as alternative perspectives: The practice of integrating meta and domain-specific theories*. Paper presentation at the Annual Meeting of the Association for Educational Communication and Technology, Anaheim, CA.
- Valentine, K. D.**, Gardner, R. P. (2013, May). *Post-bridling: Tracing one’s dialogue with a phenomenon*. Paper presentation at the Ninth International Congress of Qualitative Inquiry, Urbana-Champaign, IL.
- Valentine, K. D.**, Kopcha, T. J. (2012, October). *A multiple-perspective conceptual change design framework to support geometry concept development among middle school learners*. Round table session presentation at the Annual Meeting of the Association for Educational Communication and Technology, Louisville, KY.
- Valentine, K. D.**, Vagle, M. D., & Kopcha, T. J. (2012, October). *Offering post-intentional phenomenology as an alternative to transcendental phenomenology in educational technology*. Paper presentation at the Annual Meeting of the Association for Educational Communication and Technology, Louisville, KY.
- Valentine, K. D.**, & Kopcha, T. J. (2011, November) *A phenomenological study of students’ informal learning experiences during anchored investigations in mathematics*. Paper presentation at the Annual Meeting of the Association for Educational Communication and Technology, Jacksonville, FL.

Kopcha, T. J., Walker, B., & **Valentine, K. D.** (2011, November) *Perspectives on the field of educational technology: Looking 20 years back to see what's ahead*. Paper presentation at the Annual Meeting of the Association for Educational Communication and Technology, Jacksonville, FL.

Kopcha, T. J., **Valentine, K. D.**, Walker, B. (2011, April) *Technology as a tool for increasing self-efficacy knowledge during the field experience*. Paper presentation at the Annual Meeting of the American Educational Research Association, New Orleans, LA.

White, D. Y., **Valentine, K.**, Sztajn, P. (2006, April) *10 ways we started a learning community*. Paper presentation at the Annual Meeting of the National Council of Teachers of Mathematics, St. Louis, MO.

### **State and Local**

**Valentine, K. D.** (2013, April). *Conjecture mapping for design-based research: Designing a learning environment for space & perspective*. Poster presentation at the University of Georgia's Learning, Design, & Technology Graduate Student Poster Session, Athens, GA.

**Valentine, K. D.** (2012, April). *Integrating conceptual change approaches and realistic mathematics education to design learning environments which support geometric and spatial reasoning among middle school learners*. Poster presentation at the University of Georgia's College of Education Graduate Student Research Conference, Athens, GA.

### **INVITED SCHOLARLY ADDRESSES**

Rogers, S., Ball, M., Stefaniak, J., **Valentine, K.**, Sarsar, F. (2014, October). *Association for Educational Communications and Technology (AECT) peer mentoring project*. Presidential session at the Annual Meeting of the Association for Educational Communications and Technology (AECT) International Convention, Jacksonville, FL.

**Valentine, K. D.** (2014, January). *Problematizing space and perspective in middle school mathematics: A phenomenological study of learners' experiences*. Invited presenter at the University of South Carolina College of Education, Columbia, SC.

**Valentine, K. D.** (2013, June). *The phenomenon of problematized spaces and perspectives*. Invited presenter for the Introduction to Phenomenological Research under Vagle, M. D. at the University of Georgia 2013 Institute Workshop Series, Athens, GA.

**Valentine, K. D.** (2012, March). *Creating a blogging community with undergraduate students*. Presentation for the Innovation 20/20 Series, Athens, GA.

**Valentine, K. D.** (2011, December). *The role of technology in supporting meaningful learning*. Daelim Institute, Athens, GA.

Branch, R., Dousay, T., Walker, B., **Valentine, K.**, & Gay, M. (2011, September). *A high fidelity instructional strategy*. Roundtable session presented at the meeting of AoB AcademE of Botswana, Gaborone, Botswana.

## **HONORS AND AWARDS**

- 2014 Nominated for Excellence in Research by Graduate Students, The University of Georgia. *Problematizing Space and Perspective: A Middle School Mathematics Experience*.
- 2012 First Place Poster, Graduate Student Research Conference, The University of Georgia's College of Education. *Integrating Conceptual Change Approaches and Realistic Mathematics Education to Design Learning Environments Which Support Geometric and Spatial Reasoning among Middle School Learners*.

## **OTHER SCHOLARLY ACTIVITY**

### **Editorial and Review Boards**

- 2012 – 2014 **Associate Editor**, Teach, Teach, Tech [<http://teachteachtech.com/>]

### **Journal/Book Reviewer**

- 2016 Routledge  
2016 Journal of the Learning Sciences  
2016 Mathematics Teaching in the Middle School  
2015 Australian Journal of Educational Technology, Educational Design Research Special Issue.

### **Conference Proposal Review Panel**

- 2015 – 2016 **Proposal Reviewer**, International Conference of the Learning Sciences
- 2011 – 2016 **Proposal Reviewer**, Research and Theory Division, Association for Educational Communications and Technology
- 2011 – 2017 **Proposal Reviewer**, Design and Development Division, Association for Educational Communications and Technology
- 2012 **Proposal Reviewer**, Instructional Technology Special Interest Group, American Educational Research Association



### **Grant Review**

2016      **Proposal Reviewer**, West Virginia University's College of Education and Human Services

### **TEACHING**

#### **HONORS AND AWARDS**

2015-2017      Nominated for College Outstanding Teaching Award, West Virginia University, College of Education and Human Services

2013              Excellence in Teaching Award, The University of Georgia, Graduate School

2012              Outstanding Teaching Assistant Award, The University of Georgia, Graduate School

### **WEST VIRGINIA UNIVERSITY**

#### **Graduate Courses**

C&I 631          Mathematics Methods for Elementary Teachers

#### **Undergraduate Courses**

EDUC 400        Designing Learning Environments

UTCH 222        Classroom Interactions in Mathematics and Science

C&I 293K         Mathematics for Elementary Teachers II

#### **Major Professor for Doctor of Education Students**

2016 – Pres.     Julia Byers, Ed.D. in Curriculum & Instruction

2016 – Pres.     Stacy Huber, Ed.D. in Curriculum & Instruction

2016 – Pres.     Jing Zhang, Ed.D. in Curriculum & Instruction

#### **Committee Member for Doctoral Students**

2017 – Pres.     Marcie Rice, Ph.D. in Education (Interdisciplinary)

2017 – Pres.     Mark Morgan, Ed.D. in Curriculum & Instruction

2015 – Pres.     Lydia Olson, Ed.D. in Educational Psychology

### **Mentoring/Supervision**

- 2016 – 2017 Supervising Alexandria Kinder, Lauren Latham, and Jing Zhang (graduate teaching assistants)
- 2015 – 2016 Supervising Lydia Olson and Jessica Thomas (graduate research assistant)

### **Camps/Workshops/Seminars**

- 2017 *Design-Based Research*. Invited speaker for Design-Based Research doctoral course, University of Georgia's College of Education, Athens, GA.
- 2016 *Research Seminar*. Invited speaker for EDCI 9850, Georgia State University's College of Education and Human Development, Atlanta, GA.
- 2015-2017 *Hermeneutic Inquiry*. Invited speaker for Social and Cultural Foundations 782: Nature of Inquiry II doctoral course, West Virginia University's College of Education and Human Services, Morgantown, WV.
- 2015, 2016 *Post-intentional Phenomenology Research*. Invited speaker for Qualitative Research Methods doctoral course, West Virginia University's College of Education and Human Services, Morgantown, WV.
- 2014 *Analyzing Mathematical Activity and Facilitating Classroom Discourse*. Professional development for Monongalia County high school math teachers.

## **THE UNIVERSITY OF GEORGIA**

### **Graduate Courses**

- EDIT 9990 Design-based Research Doctoral Seminar
- EDIT 9990 Technology Integration in Theory and Practice Doctoral Seminar
- EDIT 6150E Introduction to Computer-Based Education

### **Undergraduate Courses**

- EDIT 2000 Technology and Innovation in the Classroom

### **Camps/Workshops/Seminars**

- 2014 – 2015 *Gamma Games Tabletop and Video Game Design Camp*. Four-week summer camp for The University of Georgia Summer Academy.
- 2011-2012 *Innovation in Teaching and Technology (ITT)*. Assistant to support faculty at The University of Georgia.

2010 – 2011 Fanning Institute Alternative Dispute Resolution Mediation Training, The University of Georgia.

## SERVICE

### PROFESSIONAL SERVICE

#### Professional Organization and Honor Society Membership

National Council of Teachers of Mathematics  
Association for Educational Communications and Technology  
American Educational Research Association  
International Society of the Learning Sciences  
Association of Mathematics Teacher Educators  
Kappa Delta Pi International Honor Society (education)  
Pi Lambda Theta United States Honor Society (education)

#### Community, State, National, and International Leadership

2016 **Advisor**, Tree Online Secondary Mathematics Curriculum Resources, West Virginia Department of Education

2014 – 2015 **Associate Board Member**, Design and Development Division, Association for Educational Communications and Technology

2013 **Leadership Intern**, Association for Educational Communications and Technology

2011 – 2012 **President**, Instructional Technology Student Association, The University of Georgia

2009 – 2010 **Chair**, Math Task Force, Poughkeepsie Day School, New York

2003 – 2004 **Chair**, Math Committee and Leadership Team, Chase Street Elementary, Georgia

#### Local, National, and International Conference Activity

2011 – Pres. **Facilitator**, Design and Development Division, Association for Educational Communications and Technology

2015 **Facilitator**, Culture, Learning, & Technology; Multimedia Production; Graduate Student Assembly panel session, Association for Educational Communications and Technology

2013 **Facilitator**, Design-based Research Conference, Athens, GA

2011 – 2012 **Volunteer**, Association for Educational Communications and Technology

2011 **Facilitator**, Design, Development, and Research Conference, Cape Town, South Africa

### **West Virginia University**

- 2016 – Pres. **Member**, Graduate Committee, Curriculum & Instruction/Literacy Studies, West Virginia University
- 2016 **Judge**, Graduate Student Research Forum, College of Education and Human Services
- 2015 – 2016 **Member**, Scholarship Committee, Curriculum & Instruction/Literacy Studies, West Virginia University
- 2015 – Pres. **Member**, Teacher Education Faculty Group, Curriculum & Instruction/Literacy Studies, West Virginia University
- 2015 - 2016 **Member**, Ed.D. Admissions Committee, Curriculum & Instruction/Literacy Studies, West Virginia University
- 2014 – 2015 **Member**, Graduate Committee, Curriculum & Instruction/Literacy Studies, West Virginia University