

Western Kentucky University  
College of Education and Behavioral Sciences  
Department of Psychology  
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## **EDUCATION**

**Ph. D. in Educational Psychology**, Purdue University, West Lafayette, IN.

Research Interests: academic motivation, educational psychology as it relates to teacher education, pre-service teacher development and quality of learning, self-efficacy.

Dissertation: *Pre-service teachers' beliefs about motivating students to learn*. Chair: Helen Patrick, Associate Professor, August, 2009.

**Bachelor of Science in Graphic Design**, Bradley University, Peoria, Illinois, May 1996, Summa Cum Laude with honors. Minor in Psychology

## **MANUSCRIPTS PUBLISHED**

Duffin, L.C., French, B.F., & Patrick, H. (2012). The Teachers' Sense of Efficacy Scale: Confirming the factor structure with beginning pre-service teachers. *Teaching and Teacher Education*. doi: 10.1016/j.tate.2012.03.004.

Patrick, H., Anderman, L.H., Bruening, P.S., & Duffin, L.C. (2011). The role of educational psychology in teacher education: Three challenges for educational psychologists. *Educational Psychologist*, 46, 71-83. doi:10.1080/00461520.2011.53868

*\*Member of the Routledge Education Class of 2012 as one of the "most popular articles published" in the Educational Psychology & Special Needs Education journals in 2011-2012.*

## **MANUSCRIPTS IN PREPARATION**

Cook, A., Duffin, L.C., & Day, M.M. Motivating students to persist in general chemistry: A potential solution. *Manuscript in preparation*.

Duffin, L.C. Changing teaching efficacy during teacher preparation: The role of educational psychology. *Manuscript in preparation*.

Duffin, L.C., & Patrick, H. Motivating students to learn: What do pre-service know? *Manuscript in preparation*.

## PRESENTATIONS

Duffin, L.C., Overstreet, S., & Cook, A. (2013, June). *What motivates people from STEM-related career trajectories to change to teaching?* Presented at the 2013 Hawaii International Conference on Math and Engineering Technology, Honolulu, HI.

Cook, A., Duffin, L.C., & Day, M.M. (2013, April). *Motivating students to persist in general chemistry: A potential solution.* Presented at the 245<sup>th</sup> American Chemical Society National Conference, New Orleans, LA.

Duffin, L.C., French, B.F., & Patrick, H. (2012, August). *The Teachers' Sense of Efficacy Scale: Confirming the factor structure with beginning pre-service teachers.* Presented at the International Conference on Motivation, Frankfurt, Germany.

Duffin, L.C., Carpenter, K., & Harper, C.R. (2011, May). *Why do SKyTeach students know more about learning than traditional teacher education students at WKU?* Presented at the UTeach Institute-NMSI Conference, Austin, Texas.

Duffin, L.C. (2011, April). *The impact of educational psychology within two different models of teacher education on teaching efficacy.* Presented at the Annual Meeting for the American Educational Research Association, New Orleans, LA.

Duffin, L.C., French, B.F., & Patrick, H. (2010, March). *Pre-service teachers' efficacy: A confirmatory factor analysis on scores from the Teachers' Sense of Efficacy Scale.* Presented at the Annual Meeting for the American Educational Research Association, Denver, CO.

Duffin, L.C. & Patrick, H. (2008, March). *Pre-service teachers' teaching efficacy, concerns, and commitment to teaching.* Presented at the Annual Meeting for the American Educational Research Association, New York, NY.

Duffin, L.C. & Patrick, H. (2007, April). *Pre-service teachers' beliefs about effective strategies and self-efficacy for motivating students.* Presented at the Annual Meeting for the American Educational Research Association, Chicago, IL.

Samarapungavan, A., Mantzicopoulos, Y., Patrick, H, Harris, K., Tsai, M., Stewart, M., Gerberry, C., Duffin, L., Brown, T. (2007, April) *Examining kindergarten students' science learning from a life science inquiry unit.* Presented at the Annual Meeting for the American Educational Research Association, Chicago, IL.

## STUDENT PRESENTATIONS

Carpenter, K.C., & Harper, C.R. (2011, March). *SKyTeach vs. the traditional teacher education program: Why is the quality of learning of educational psychology content different?* Poster presented at the Western Kentucky University Student Research Conference, Bowling Green, KY.

Cook, A., Duffin, L.C., Overstreet, S., & Day, M.M. (2013, March). *Motivating WKU students to persist in general chemistry*. Presented at the Western Kentucky University Student Research Conference, Bowling Green, KY.

Crowley, B., Sondag, A., Duffin, L.C., & Wininger, S.R. (2013, March). *Pre-service teachers' perceptions of what it means to "learn a lot."* Presented at the Western Kentucky University Student Research Conference, Bowling Green, KY.

Hogan, E., Cannady, L., McCoy, K., Biggs, C., Keen, C., Clayton, K.D., Duffin, L.C., & Ostrowski, S. (2013, March). *An investigation of adverse life events experienced by WKU students*. Presented at the Western Kentucky University Student Research Conference, Bowling Green, KY.

Overstreet, S.N., & Cook, A. (2012, March). *STEM career switchers: Why education?* Presented at the Western Kentucky University Student Research Conference, Bowling Green, KY.

## **CURRENT RESEARCH PROJECTS**

Duffin, L.C. *An examination and comparison of factors that impact academic quality and learning within teacher education at the educational psychology level*. (Current Phase: Data collection.)

Duffin, L.C., Clayton, K.D., & Ostrowski, S.A. *The Impact of Cognitively Accessible Trauma on Attention*, RCAP-II Award #: 11-8004 - \$8,000. (Current Phase: Data collection, analyses and dissemination)

Duffin, L.C. *Issues involving STEM and STEM Education* (Current Phase: Data collection, analyses and dissemination)

Duffin, L.C., & Day, M.M. *A Longitudinal Examination of Pre-Service Teacher Development and Preparedness during Teacher Preparation and Beyond*. (Current Phase: Data collection, analyses, and dissemination)

Wininger, S.R., & Duffin, L.C. *Measures of self-regulation cognition*. (Current Phase: Data collection, analyses, and dissemination)

## COLLEGE TEACHING EXPERIENCE

<u>Institution</u>	<u>Dates</u>	<u>Rank</u>	<u>Department</u>
Western KY University	2009 – present	Assistant Professor	Psychology
Purdue University	2007-2008	Graduate Teaching Assistant	Educational Studies
Purdue University	2004-2005	Graduate Teaching Assistant	Educational Studies

### COURSES TAUGHT

WKU	PSY 310	Educational Psychology ('09- )
	PSY 310 (web)	Educational Psychology (January, 2011)
	SMED 210	Knowing & Learning in Mathematics & Science ('09- )
	SMED 510	Advanced Topics in Knowing & Learning in Mathematics & Science ('11- )
	SMED 620	Collaborative Research to Improve Mathematics and Science Teaching ('12- )
	SMED 630	Action Research Seminar ('12- )

Purdue EDST 235/265 Recitation for Learning & Motivation/The Inclusive Classroom

### GRANTS

Cook, A., & **Duffin, L.C.** (2012). WKU Faculty-Undergraduate Student Engagement (FUSE) Internal Grant. *Exploring Freshmen College Students' Self-efficacy, Attitudes and Intentions to toward Chemistry*. Funded: \$4,600. (FUSE Award #: 12-SF110).

Day, M.M. (PI), Pesterfield, L., McDaniel, K., & Wilson, S. (2013). National Science Foundation Math and Science Partnership Grant (NSF 13-0116). *Western Kentucky University's Targeted Partnership: STEM-Teach*. Requested: \$7,564,004. Submitted to NSF on December 18, 2012. (**Duffin, L.C.**, *STEM-Teach Research Coordinator*).

**Duffin, L.C.** (2010). WKU New Faculty Grant: *The Impact of Trauma on College Students' Learning of Mathematics*. Requested: \$4000.00, not funded.

Ostrowski, S.A., **Duffin, L.C.**, & Clayton, K.D. WKU RCAP Grant: *Impact of the psychophysiological consequences of trauma exposure on attentional control*. Requested: \$8000. Funded (RCAP-II Award #: 11-8004).

### AWARDS

Recipient of the 2013 Faculty Award for Teaching in the College of Education & Behavioral Sciences, Western Kentucky University

## SERVICE

### University Service

#### WKU Student Research Conference

- ❖ Judge, WKU Annual Student Research Conference, March 23, 2013
- ❖ Judge, WKU Annual Student Research Conference, March 24, 2012
- ❖ Judge, WKU Annual Student Research Conference, March 26, 2011
- ❖ Judge, WKU Annual Student Research Conference, February 27, 2010

### College of Education and Behavioral Sciences Service

#### CEBS Committee Memberships

- ❖ GSkyTeach Steering Committee, May 2011 - Present
- ❖ SKy Teach Steering Committee, August 2009 - Present
- ❖ CEBS Representative, Boyd-Lubker Visiting Scholars Program Committee, August 2011 – June 2014
- ❖ CEBS Representative, Honors Development Board, August 2012-August 2015
- ❖ Undergraduate Curriculum Committee, August 2010 - August 2012
- ❖ Alternate Admissions Sub-Committee of the CEBS Undergraduate Curriculum Committee, August 2010 - August 2012
- ❖ CEBS Representative, Search Committee: Tenure-Track Science Education Positions (2 positions), April 2011 - June 2011

#### Dissertations and Honors Theses Committee Memberships

- Chair, Honors Thesis Committee, Amanda Cook, *"Exploring freshmen college students' self-efficacy, attitudes, and intentions toward chemistry,"* Defended: April 17, 2013.
- Committee Member, Dissertation Committee for the Educational Leadership Doctoral Program, Audrey Harper, March 2011 – present
- Committee Member, Dissertation Committee for the Educational Leadership Doctoral Program, Terry Elliot, April 2010 – present

#### Student Supervised Research Activity – GSkyTeach Action Research Projects

##### 2012-2013

- Clements, E. (2013). *A comparison of two different classroom management structures on the occurrence of negative student behaviors in a mathematics classroom.*
- Froedge, L. (2013). *The effects of a utility-value and goal-setting intervention on interest, perceived utility value, and academic performance in mathematics.*
- Lett, K. (2013). *Developing college and career-readiness: The effects of an ACT-specific skill-building intervention on student performance.*
- Murray, T. (2013). *Homework completion: A look at the effects of a group contingency strategy on motivation for completing homework assignments.*
- O'Dell, T. (2013). *The effects of a shorter instructional cycle on student academic performance.*

- Robertson, M. (2013). *Using a co-regulatory intervention to increase self-regulatory discourse behaviors in mathematics*.
- Upadayay, H. (2013). *The effects of lesson format on student engagement in a high school geometry classroom*.

#### 2011-2012

- Armendariz, A. (2012). *Implementation of an independent practice intervention strategy for high school science students*.
- Bressman, B. (2012). *The use of reflective blogging to increase the conceptual understanding of chemistry*.
- Casebolt, J. (2012). *The effect that opening or closing a geometry lesson with focused vocabulary has on assessments*.
- Clements, T. (2012). *Student motivation behind answering or not answering open-ended questions in the high school mathematics classroom*.
- Dick, K. (2012). *Graphic organizers: Deeper understanding and remembering of concepts*.
- Heimerdinger, M. (2012). *Breaking the ice: A first step to facilitate cooperative learning*.
- Johnson, K. (2012). *Positive classroom environment: Effects on student attitude toward learning*.
- Marsh, J. (2012). *Measuring the effective use of clicker technology incorporation in a high school science classroom*.
- Volz, K. (2012). *Decoding and Verbalization: A look at students' decoding and verbalization processes for multi-step mathematics problems*.

#### Other CEBS Service Opportunities

- Faculty Advisor, SKyTeach Student Organization (SKySO), September 2010 - Present

### **Departmental Service**

#### Academic Transition Program Events

- Faculty Representative, Academic Transitions Program, March 27, 2013
- Faculty Representative, Academic Transitions Program, March 14, 2012
- Faculty Representative, Academic Transitions Program, April 16, 2011
- Faculty Representative, Academic Transitions Program, August 25, 2011
- Faculty Representative, Academic Transitions Program, August 26, 2010

#### Search Committees

- Member, Search Committee for Pedagogical Ranks Tenure-Track Position for Glasgow, January 2013—March 2013
- Member, Search Committee for Educational Psychology Tenure-Track Position, January 2012 – April 2012
- Member, Search Committee for Educational Psychology Visiting 1-Year Position, February 2011 – April 2011

- Member, Search Committee for Glasgow Instructor Position, November 2011 – December 2011
- Member, Search Committee for Glasgow & Owensboro Instructor Positions (2 positions), November 2010 – December 2010

#### Recruitment Events

- Faculty Representative, Spring Minority Preview Event, January 26, 2013
- Faculty Representative, WKU Majors and Minors Fair, September 18, 2012
- Faculty Representative, WKU Fall Focus on WKU, November 5, 2011
- Faculty Representative, WKU Majors and Minors Fair, September 21, 2011
- Faculty Representative, Spring Focus on WKU Event, February 21, 2011
- Faculty Representative, WKU Minority Recruitment Fair, October 30, 2010

#### Master's Theses

- Scott Perkins (Chair: Dr. Steven Winingar), Committee Member. Defended: March 8, 2013
- John Manning (Chair: Dr. Sarah Ostrowski), Committee Member. January 2010 – April 2011
- Elizabeth Youngman (Chair: Dr. Carl Meyers), Committee Member, 2010, May

#### Academic and Career Advising

- 18 undergraduate students advised, 1 graduate student advised, 2011-2012
- 32 undergraduate students advised, 0 graduate students advised, 2010-2011

#### Other Service Opportunities

- Chairperson, New Marketing Campaign and Promotional Material for Psychology Department. (June 2011 - Present).
- Guest Speaker, PSY 371: Psychology of Sales Behavior, October 19, 2009

#### **Public/Community Service/Outreach**

- Co-Organizer, "Math and Science Mania" at South Warren Middle School, Bowling Green, Kentucky, April, 2013
- Co-Organizer, "Math and Science Mania" at South Warren Middle School, Bowling Green, Kentucky, December, 2012
- Co-Organizer, "Math and Science Mania" at Warren East Middle School, Bowling Green, Kentucky, April, 2012
- Co-Organizer, "Math and Science Mania" at South Warren Middle School, Bowling Green, Kentucky, December, 2011
- Coach, Warren County Youth Sports – Volleyball, July 2011 – October 2011
- Co-Organizer, "Math and Science Mania" at Warren East Middle School, Bowling Green, Kentucky, April, 2011
- Judge, SKy Academy "Last Chance" Forensic Tournament, 2011, January
- Co-Organizer, "Math and Science Mania" at Warren East Middle School, Bowling Green, Kentucky, December, 2010

- Participant, RCDC “Kick for a Cause” Kickball Tournament, July 17, 2010
- Co-Organizer, “Math and Science Mania” at Moss Middle School, Bowling Green, Kentucky, April, 2010
- Participant in the Women Build Project, Habitat for Humanity, February 2010 - December 2010
- Co-Organizer, “Math and Science Expo” for Bowling Green, Kentucky Community Elementary Students held at Cumberland Trace Elementary School, December 2009

### **Professional Service**

- Appointed Reviewer, American Educational Research Association, Division C: Learning and Instruction, Section 2B, August, 2012
- Session Presenter, UTeach Conference, “Forming and Sustaining Your Student Organizations: The Successes, The Challenges, and Developing Solutions,” May 2012
- Ad hoc Reviewer for *Teaching and Teacher Education*, 2 articles 2012-
- Ad hoc Reviewer for *Urban Education*, 1 article, 2012-
- Appointed Reviewer, American Educational Research Association, Teaching of Educational Psychology Special Interest Group (TEP SIG), July 2010 – November 2010

### **PROFESSIONAL ASSOCIATIONS/CERTIFICATIONS**

American Educational Research Association (AERA), 2004-

- Division Memberships:
  - Division C - Learning and Instruction
  - Division K - Teaching and Teacher Education
- Special Interest Groups (SIGs) Memberships:
  - Motivation SIG
  - Teaching Educational Psychology SIG

American Psychological Association (APA), 2007-

- Division Memberships:
  - Division 15: Educational Psychology

UTeach Institute, 2009-

### **Certifications**

Illinois Elementary School Association Coaching Certification