

# **Todd Dane Bozeman, Ph.D.**

Department of Teaching, Learning, and Culture  
College of Education and Human Development  
Texas A&M University  
College Station, TX 77843-4232  
Current as of February 15<sup>th</sup>, 2012

## **EDUCATION**

Ph.D. (2010)	Texas A&M University	Curriculum and Instruction, Science Education
M.Ed. (2005)	Texas A&M University	Curriculum and Instruction, Science Education
B.S. (1993)	Lubbock Christian University	Biology

## **Dissertation Title**

Teacher Participation in Professional Activities and Job Satisfaction: Prevalence and Associative Relationship to Retention for High School Science Teachers

## **PROFESSIONAL HISTORY**

2010-2012	Post-Doctoral Researcher and Research Scientist, Policy Research Initiative in Science Education, Texas A&M University, College Station, TX
2005-2010	Doctoral Research Fellow, Policy Research Initiative in Science Education, Texas A&M University; College Station, TX
2006-2008	Graduate Teaching Assistant, College of Education, Educational Psychology and Teaching, Learning, and Culture Departments, Texas A&M University; College Station, TX
2003-2005	Graduate Research Assistant, Information and Technology in Science, Center for Teaching and Learning, Texas A&M University; College Station, TX
2000-2001	Graduate Teaching Assistant, College of Science, Chemistry Department, Texas A&M University; College Station, TX
1999-2000	Science Chair and Science Teacher, Roosevelt ISD; Lubbock, TX
1996-1999	Science Teacher, Hale Center ISD; Hale Center, TX
1993-1996	Mathematics and Science Teacher, Cornerstone School; San Angelo, TX

1989-1993 Undergraduate Assistant, College of Science, Biology and Chemistry  
Departments, Lubbock Christian University; Lubbock, TX

## **PROFESSIONAL SERVICE, MEMBERSHIP, AND COMMITTEES**

### **Professional Service**

Statistical consultant, TLAC Department, Texas A&M University (2008-2011)  
Student reviewer, American Educational Research Journal (2005-2007)  
Student reviewer, School Science and Mathematics Journal (2004-2006)

### **Professional Memberships**

Association for Science Teacher Education  
Chemical Society of America  
National Science Teachers Association  
National Association for Research in Science Teaching  
School Science and Mathematics Association  
Southwest Association for Science Teacher Education  
Southwest Educational Research Association  
American Statistical Association

### **Professional Committees**

Student Representative, TLAC Search Committee for Science Education (2008)  
Student Representative, TLAC Search Committee for Urban Education (2006)  
Treasurer, Graduate Student Association, TLAC (2007)

## **PROFESSIONAL INTERESTS**

Statistical methodologies in social science research  
Statistical analyses in public education policy  
Policy in public school science education

## **HONORS AND AWARDS**

ExxonMobil Science Teacher of the Year, Region 17, TX (2000)

## ARTICLES, POLICY DOCUMENTS, DATABASES AND PRESENTATIONS

### Articles Currently Under Peer Review

Stuessy, C.L., **Bozeman, T.**, & Ivey, T. Profiles of science achievement and science teacher retention: Practices and characteristics of Texas high schools and their science teachers. *Journal for Research in Science Teaching*.

**Bozeman, D.**, Stuessy, C., & Call, C. Participation in professional activities by high school science teachers: Prevalence and associated findings with teacher retention. *Teaching and Teacher Education*.

**Bozeman, D.**, & Stuessy, C., & Job satisfaction of high school science teachers: Prevalence and association with teacher retention. *Teaching and Teacher Education*.

### Articles in Preparation

**Bozeman, D.**, & Stuessy, C. Professional activity, job satisfaction, and mobility of high school science teachers: A review of literature and research methods. *Journal for Research in Science Teaching*.

**Bozeman, D.**, & Stuessy, C. High school science teachers' job satisfaction and participation in professional activities: An associative model of action and attitude for retained teachers. *Journal for Research in Science Teaching*.

### Policy Documents

Policy Research Initiative in Science Education-II: School, program, and teacher instruments. (2011). **Bozeman, D.**, & Stuessy, C. L. (Eds.)

**Bozeman, D.** & Stuessy, C.L. (2011, June). Mythbusters: Myths about high school science teachers in Texas. (Policy Brief Rep. No. 10). College Station, TX: Policy Research Initiative in Science Education. Retrieved from <http://prise.tamu.edu>.

**Bozeman, D.** (2010, September). *Science courses offered in Texas high schools: A frequency and comparative analysis* (Policy Brief Rep. No. 8). College Station, TX: PRISE Research Group at Texas A&M University. Retrieved from <http://prise.tamu.edu>.

**Bozeman, D.**, & Stuessy, C. L. (2009, November). *Job satisfaction of high school science teachers in Texas* (Policy Brief Rep. No. 4). College Station, TX: PRISE Research Group at Texas A&M University. Retrieved from <http://prise.tamu.edu>.

Stuessy, C. L., **Bozeman, D.**, & Ivey, T. (2009, October). *Mobility of high school science teachers in Texas* (Policy Brief Rep. No. 2). College Station, TX: PRISE Research Group at Texas A&M University. Retrieved from <http://prise.tamu.edu>.

**Bozeman, D.**, & Stuessy, C. L. (2009, September). *Professional policies and practices for recruiting and retaining high school science teachers: A chart essay describing the state-of-the-state of Texas high schools*. College Station, TX: PRISE Research Group at Texas A&M University. (81 pp.). Retrieved from <http://prise.tamu.edu>.

Stuessy, C. L., & **Bozeman, D.** (2009, September). *Professional practices and job satisfaction: A chart essay describing the state-of-the-state of Texas high school science teachers*. College Station, TX: PRISE Research Group at Texas A&M University. (101 pp.). Retrieved from <http://prise.tamu.edu>.

McNamara, J., & **Bozeman, D.** (2007, February). *The phase two sampling plan*. College Station, TX: PRISE Research Group at Texas A&M University. (9 pp.). Retrieved from <http://prise.tamu.edu>.

## Databases

**Bozeman, D.** (2011). *The PRISE-II Teacher Database*. A database containing seven (7) datasets describing 200 Texas high school science teachers. Created for the NSF in SPSS.

**Bozeman, D.** (2011). *The PRISE-II School Database*. A database containing six (6) datasets describing 10 Texas high schools. Created for the NSF in SPSS.

**Bozeman, D.** (2008). *The PRISE Teacher Database*. A database containing seven (7) datasets describing 385 Texas high school science teachers. Created for the NSF in SPSS.

**Bozeman, D.** (2008). *The PRISE School Database*. A database containing six (6) datasets describing 50 Texas high schools. Created for the NSF in SPSS.

### National Articles and Presentations

**Bozeman, D.**, Stuessy, C., Rosado, C., & Blocker, T. (2012, March). *Conceptualize, Contact, Collect, Connect: Using Mixed Methods to Characterize the High School Science Teacher Professional Culture*. Paper presented at the annual meeting of the National Association of Research in Science Teaching, Indianapolis, IN.

Spikes, S., & **Bozeman, D.** (2012, March). *Activity, Job Satisfaction, Mobility: Teachers as Contributors and Consumers of the Science Teacher Professional Continuum*. Paper presented at the annual meeting of the National Association of Research in Science Teaching, Indianapolis, IN.

**Bozeman, D.** (2010). *Teacher preparation in professional activities and job satisfaction: Prevalence and associative relationship to retention for high school science teachers* (Unpublished doctoral dissertation). Texas A&M University, College Station.

Stuessy, C. L., Ayar, M., **Bozeman, D.**, Brown, I., Chung, H-K., Conway, B., Hollas, T., Huang, R., Ivey, T., Jo, I., Kim, S., Loving, C., Ogletree, Q., Richardson, R., Ruebush, L., Spikes, S., Vasquez, C., Williams, O., Yoo, D., & Zhao, J. (2010, May). *Recruitment, induction, renewal, job satisfaction, and retention of high school science teachers*. Interactive poster session presented at the meeting of the American Educational Research Association, Denver, CO. [Eight posters of original research presented by Teaching Learning and Culture graduate students previously enrolled in EDCI 662: Mixed Methods, Spring Semester 2009.]

**Bozeman, D.**, Richardson, R., & Vasquez, C. (2010, May). *Method: Sampling design, instrument development, and calculations of retention for Texas high school science teachers*. Poster presented at the interactive poster session, Recruitment, induction, renewal, job satisfaction, and retention of high school science teachers, at the meeting of the American Educational Research Association, Denver, CO.

Stuessy, C. L., **Bozeman, D.**, Hollas, T., Ivey, T., Richardson, R., Spikes, S., Vasquez, C., & Yoo, D. (2010, March). *School practices in recruiting, inducting, renewing, and retaining high school science teachers*. Paper presented at the meeting of the National Association for Research in Science Teaching, Philadelphia, PA.

Stuessy, C. L., **Bozeman, D.**, & Ivey, T. (2010, January). *Profiles of science achievement and science teacher retention: Practices and characteristics of Texas high schools and their science teachers*. Paper presented at the meeting of the Hawaii International Conference on Education, Honolulu, HI.

- Stuessy, C., **Bozeman, D.**, Ivey, T., Richardson, S., Spikes, S., Stiles, T., Vasquez, C., & Wilson, R. (2008, March). *A model for preparing policy researchers in science education research and graduate education*. Special colloquium presented at the Meeting of the National Association for Research in Science Teaching, Baltimore, MD. Available: NARST *Proceedings*, peer-reviewed and published on CD.
- Stuessy, C. L. (Organizer), Schielack, J., **Bozeman, D.**, Nickles, G., Milam, J., Peterson, C., Richardson, R., Skidmore, S., Warren, C., Sell, K., Miller, H., Force, C., Metoyer, S., Hilding-Kronforst, S., Brooks, L., & Scallon, J. (2006, April). *Scientific inquiry and information technology: Catalysts for innovative and coherent professional development*. Interactive paper symposium presented at the American Educational Research Association, San Francisco, CA.
- Stuessy, C.L., & **Bozeman, D.** (2006, April). *Contributions of the summer 1 education team experience to the transportable model*. Paper presented at the American Educational Research Association, San Francisco, CA.
- Bozeman, D.** (2006). *Defining the population of secondary students and secondary teachers in the state of Texas*. Paper presented at the School Science and Mathematics Association Conference, Indianapolis, IN.
- Stuessy, C.L., Brooks, L., **Bozeman, D.**, Force, C., Hilding-Kronforst, S., Metoyer, S., Miller, J., Scallon, J., Sell, K., & Warren, C. (2005, November). *How do classroom practitioners integrate authentic science laboratory experiences into their science teaching?* A multiple paper set presented at the meeting of the School Science & Mathematics Association, Fort Worth, TX.
- Stuessy, C. L., Griffing, L., Harbaugh, A., **Bozeman, D.**, Richardson, R., Scallon, J., Parrott, J., & Herbert, B. (2005, April). *Authentic scientific research in secondary school classrooms: Some say it can't be done*. Symposium presented at the meeting of the American Educational Research Association, Montreal, Canada.
- Bozeman, D.**, Stuessy, C., & Richardson, R. (2005, April). *Situating the context for classroom learners: How ITS cohort teachers adapted their authentic scientific research experiences for classroom implementation*. Paper presented at the meeting of the National Association for Research in Science Teaching, Dallas, TX.
- Bozeman, D.** (2003, October). *A survey for the identification of adaptive expertise in preservice teachers*. Paper presented at the meeting of the School Science and Mathematics Association, Columbus, OH.

### State and Regional Articles and Presentations

**Bozeman, D.** (2010, October). *Job satisfaction of high school science teachers in Texas*. Paper presented at the meeting of the Southwest Association for Science Teacher Education, Stillwater, OK.

Stuessy, C., McNamara, J., Scott, T., & the PRISE Research Group (**Bozeman, D.**, Ivey, T., Metty, J., Troncoso-Skidmore, S., Richardson, R., & Wilson, R.). (2007, February). *Policy research initiative in science education*. Poster presented at the meeting of the Educational Research Exchange, College of Education, Texas A&M University, College Station, TX.

Stuessy, C. L., & PRISE Research Group Scholars (**Bozeman, D.**, Ivey, T., Metty, J., Troncoso-Skidmore, S., Richardson, R., & Wilson, R.). (2006, September). *Informing policy: Strategies for retaining highly qualified high school science teachers*. Paper presented at the meeting of the Southwest-Association for Science Teacher Educators, Wichita, KN.

Stuessy, C., McNamara, J., Scott, T., & the PRISE Research Group (**Bozeman, D.**, Ivey, T., Metty, J., Troncoso-Skidmore, S., Richardson, R., & Wilson, R.). (2006, September). *Recruitment, retention, and continuous career development of high school science teachers: A policy research initiative*. Paper presented at the Research Conference on Teacher Education, Center for Research, Evaluation, and Advancement of Teacher Education (CREATE), San Antonio, TX.

**Bozeman, D.** (2005, March). *Descriptive statistics: The stepchild of training and research methods*. Paper presented at the meeting of the Southwest – Association for the Education of Teachers in Science, San Antonio, TX.

Stuessy, C. L., Milam, J., Brooks, L., **Bozeman, D.**, Forsyth, L., & Force, C. (2004, February). *Can electronic portals be used to build science education learning communities?* Poster presented at the meeting of the Southwest Association for the Education of Teachers of Science, Georgetown, TX.

Stuessy, C.L., Schielack, J., Milam, J., Forsyth, L., Force, C., **Bozeman, D.**, & Brooks, L. (2004, February). *Evaluating elements of the design of an electronic portal system supporting a complex professional development setting*. Poster presented at the meeting of the Southwest Association for the Education of Teachers of Science, Georgetown, TX.

## **TEACHING EXPERIENCE**

### **K-12 Teaching Experience**

- 1999 – 2000 Science Chair, Roosevelt High School, Roosevelt, Texas
- 1996 – 2000 Teacher, Public High School Biology and Anatomy & Physiology
- 1993 – 2000 Teacher, Public and Private High School Chemistry & Integrated Physics and Chemistry
- 1993 – 2000 Teacher, Public and Private High School Physics
- 1993 – 1996 Teacher, Private High School Mathematics (Geometry, Algebra I & II, Trigonometry, Analytical Geometry, Calculus, and Statistics)

### **University Teaching Experience**

- 2011 – 2012 Critical Study Group on Quantitative Research Methods in Science Education Research, Co-Instructor with Dr. Sara Spikes
- 2011 Mixed Methods, Assistant Instructor with Dr. Carol Stuessy
- 2011 How People Learn Mathematics and Science, Assistant Instructor with Dr. Carol Stuessy
- 2007 SPSS in Analyzing Field-Based Data, Instructor with Dr. Carol Stuessy
- 2006 – 2008 Survey Research and Design, Assistant Instructor with Dr. James McNamara
- 2006 – 2008 Logistic Regression Modeling, Assistant Instructor with Dr. James McNamara
- 2006 – 2008 Nonparametric Statistics, Assistant Instructor with Dr. James McNamara
- 2006 Policy Research in Public Schools, Assistant Instructor with Dr. James McNamara
- 1989 – 1993 College Biology, Human Anatomy & Physiology, Animal Physiology, General Chemistry, and Organic Chemistry Laboratory Instructor