

Andrew S. Zieffler

CONTACT INFORMATION	Department of Educational Psychology University of Minnesota 167 EdSciB 56 East River Rd Minneapolis, MN 55455 USA	<i>Voice:</i> (612) 310-6959 <i>Fax:</i> (614) 292-7596 <i>E-mail:</i> zief0002@umn.edu <i>URL:</i> www.tc.umn.edu/~zief0002
EDUCATION	University of Minnesota , Minneapolis, MN USA Ph.D., Quantitative Methods in Education (2006) Advisor: Professor Joan B. Garfield Thesis: A Longitudinal Investigation of the Development of College Students Reasoning About Bivariate Data During an Introductory Statistics Course Saint Cloud State University , St. Cloud, MN USA B.S., Mathematics Education, (1998)	
AWARDS	Graduate Student Teaching Award Department of Educational Psychology, University of Minnesota, 2005 Radioshack National Teacher Award Finalist ROCORI High School, Cold Spring, MN, 1999	
TEACHING EXPERIENCE	University of Minnesota , Minneapolis, MN USA <i>Lecturer</i> June 2006 to present Department of Educational Psychology <ul style="list-style-type: none">• Taught undergraduate level (Basic and Applied Statistics) and graduate level (Statistical Methods I: Probability and Inference, Survey Design, Sampling, and Implementation, Statistical Methods II: Regression and the General Linear Model) statistics courses.• Coordinated the undergraduate statistics instructors. <i>Instructor</i> January 2003 to June 2006 Department of Educational Psychology <ul style="list-style-type: none">• Developed computer activities, helped design curriculum, presented lectures and material, wrote and graded assessments. <i>Teaching Assistant</i> September 2002 to June 2003 Department of Educational Psychology <ul style="list-style-type: none">• Assisted in two classroom labs — <i>Basic and Applied Statistics</i> and <i>Introductory Statistical Methods</i> taught by Michelle Everson. Helped facilitate labs, graded assignments and exams, and tutored students. ROCORI High School , Cold Spring, MN USA <i>Mathematics Educator</i> September 1998 to August 2002 <ul style="list-style-type: none">• Taught a variety of mathematics and statistics courses including Honors Statistics, and Advanced Placement Statistics.	

Saint Cloud State University, St. Cloud, MN USA

Mathematics Instructor

September 1996 to May 1998

Department of Mathematics

- Taught a no-credit pre-algebra course.
- Also helped run the Mathematics Skills Center by coordinating tutors.

PUBLICATIONS

Zieffler, A. (2008). *Purposeful assessment for strengthening student learning*. Manuscript submitted for publication.

Zieffler, A., & Garfield, J. (2009). Modeling the growth of students' covariational reasoning during an introductory statistics course. *Statistics Education Research Journal*, 8(1). [http://www.stat.auckland.ac.nz/~iase/serj/SERJ8\(1\)_Zieffler_Garfield.pdf](http://www.stat.auckland.ac.nz/~iase/serj/SERJ8(1)_Zieffler_Garfield.pdf)

Zieffler, A., Garfield, J., delMas, R., & Reading, C. (2008). A framework to support research on informal inferential reasoning. *Statistics Education Research Journal*, 7(2). [http://www.stat.auckland.ac.nz/~iase/serj/SERJ7\(2\)_Zieffler.pdf](http://www.stat.auckland.ac.nz/~iase/serj/SERJ7(2)_Zieffler.pdf)

Everson, M., Zieffler, A., & Garfield, J. (2008). Implementing new reform guidelines in teaching introductory college statistics courses. *Teaching Statistics*, 30(3), 66-70.

Zieffler, A., Garfield, J., Alt, S., Dupuis, D., Holleque, K., & Chang, B., (2008). What does research suggest about the teaching and learning of introductory statistics at the college level? A review of the literature. *Journal of Statistics Education*, 16(2). <http://www.amstat.org/publications/jse/v16n2/zieffler.pdf>

Zieffler, A. (1999). A statistical journey with ninth grade students. *Math Times*, Winter, 14.

BOOK CHAPTERS

Garfield, J., delMas, R., & Zieffler, A. (in press). Assessing important learning outcomes in introductory tertiary statistics courses. In P. Bidgood, N. Hunt, and F. Jolliffe (Eds.), *Assessment methods in statistical education: An international perspective*. New York: Wiley & Sons Ltd.

Zieffler, A. (2008). [Contributing Author]. In J. Garfield & D. Ben-Zvi, *Developing Students Statistical Reasoning: Connecting Research and Teaching Practice*. Springer: New York.

Ben-Zvi, D., Garfield, J., & Zieffler, A. (2006). Research in the statistics classroom: Learning from teaching experiments. In G. Burrill and P. C. Elliott (Eds.), *Thinking and Reasoning with Data and Chance: 68th NCTM Yearbook* (pp. 467-482). Reston, VA: National Council of Teachers of Mathematics.

CONFERENCE PUBLICATIONS

Zieffler, A. (2008). *Dirk Gently's Guide to Holistic Assessment*. In *Papers Presented at the 2008 Joint Statistical Meetings*. Denver, CO, July 31-August 7, 2008.

Garfield, J., Zieffler, A., delMas, R., Chance, B., Hilton, S., & Lesser, L. (2007). Practical issues in conducting statistics education research. In *Papers Presented at the 2006 Joint Statistical Meetings [CD-ROM]*. Seattle, WA, August 6-10, 2006.

Lane-Getaz, S., & Zieffler, A. (2007). Using simulation to introduce inference: An active learning approach. In *Papers Presented at the 2006 Joint Statistical Meetings* [CD-ROM]. Seattle, WA, August 6-10, 2006.

Zieffler, A., Garfield, J., & delMas, R. (2007). Studying the role of simulation in developing students statistical reasoning. *Proceedings of the 56th Session of the International Statistical Institute (ISI), Lisbon, Portugal.*

Zieffler, A., Garfield, J., delMas, R., & Gould, R. (2007). Studying the development of college students informal reasoning about statistical inference. *Proceedings of the 5th Statistical Reasoning, Thinking and Literacy (SRTL) Research Forum, Coventry, England.*

PRESENTATIONS

Zieffler, A., Garfield, J., & delMas, R. (2009, August). *Change agents for teaching and learning statistics: The CATALST project.* Invited presentation in Session #290, Stirring the Pot: Radical Ideas in Statistics Education, at the 2009 Joint Statistical Meetings, Washington, DC.

delMas, R., Garfield, J., & Zieffler, A. (2009, August). *A national survey on teaching practices in undergraduate statistics instruction.* Invited presentation in Session #575, Who Is Teaching the Statistics Courses?, at the 2009 Joint Statistical Meetings, Washington, DC.

Kaplan, D., & Zieffler, A. (2009, June). *Using R for teaching statistics.* Break-out session presentation at the United States Conference on Teaching Statistics, Columbus, OH.

Schillo, B., Dreher, M., St. Claire, A., Luxenberg, M., Christenson, M., & Zieffler, A. (2009, April). *Promoting statewide helpline and web-based cessation services: An analysis of service volumes and media efforts.* Paper presented at the Joint Conference of Society for Research on Nicotine and Tobacco and Society for Research on Nicotine and Tobacco-Europe.

Zieffler, A. (2009, April). *Using R in the introductory graduate statistics sequence.* Symposium for the Educational Statisticians Special Interest Group, at the annual meeting of the American Educational Research Association, San Diego, CA.

delMas, R., Garfield, J., & Zieffler, A. (2009, February). *Aiming to improve students' statistical reasoning: An introduction to AIMS materials.* Webinar presented for Consortium for the Advancement of Undergraduate Statistics Education.

delMas, R., Garfield, J., & Zieffler, A. (2008, January). *Innovative, Research-Based Activities for a First Course in Statistics.* Paper presented at the Joint Mathematics Meetings, San Diego, CA.

delMas, R., Garfield, J., & Zieffler, A. (2008, January). *Adapting and Implementing Innovative Materials in Statistics Courses (AIMS).* Poster presented at the Joint Mathematics Meetings, San Diego, CA.

Zieffler, A. (2008, October). *Graphics and Visualizations.* Presentation at Stat Chat, Macalester College, St. Paul, MN.

- Zieffler, A. (2008, August). *Dirk Gently's Guide to Holistic Assessment*. Invited paper presented in Session #209, Innovative and Controversial Approaches to Student Assessment, at the 2008 Joint Statistical Meetings, Denver, CO.
- Zieffler, A. (2008, March). *Rethinking Graduate Applied Educational Statistics Classes*. Symposium for the Educational Statisticians Special Interest Group, at the annual meeting of the American Educational Research Association, New York, NY.
- Rodriguez, M., & Zieffler, A. (2007, November). *Measurement that supports assessment for learning*. Webinar presented for Consortium for the Advancement of Undergraduate Statistics Education.
- Zieffler, A. (2007, March). *Conducting classroom research in statistics education: Issues, challenges and examples*. Webinar presented for Consortium for the Advancement of Undergraduate Statistics Education.
- Zieffler, A., & Everson, M. (2007, May). *GAISE 2007: A statistics odyssey*. Break-out session presentation at the United States Conference on Teaching Statistics, Columbus, OH.
- Zieffler, A., & Garfield, J. (2007, April). *Modeling the growth of students' covariational reasoning during an introductory statistics course*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Zieffler, A., Garfield, J., & delMas, R. (2007, August). *Studying the role of simulation in developing students' statistical reasoning*. Invited session presentation at the 56th Session of the International Statistical Institute (ISI), Lisbon, Portugal.
- Zieffler, A., Garfield, J., delMas, R., & Gould, R. (2007, August). *Studying the development of college students' informal reasoning about statistical inference*. Presentation at the 5th Statistical Reasoning, Thinking and Literacy (SRTL) Research Forum, Coventry, England.
- Garfield, J., delMas, R., & Zieffler, A. (2006, September). *Adapting and Implementing Innovative Materials in Statistics (AIMS): Developing lessons aligned with GAISE*. Presentation at Stat Chat, Macalester College, St. Paul, MN.
- Zieffler, A. (2006, August). *Conducting classroom research and writing a dissertation: Lessons learned about statistics education research*. Paper presented in an Invited Panel Session, Joint Statistical Meetings, Seattle, WA.
- Zieffler, A. (2005, August). *Using GAISE to create a better introductory statistics course*. Paper presented in an Contributed Topic Panel Session, Joint Statistical Meetings, Minneapolis, MN.
- Zieffler, A. (2005, July). *Correlation is not causation: Instructor perceptions of student understanding & misconceptions in bivariate data*. Poster presented at The Fourth International Research Forum on Statistical Reasoning, Thinking, and Literacy, Auckland, New Zealand.
- Zieffler, A. (2005, July). *Correlation is not causation: Instructor perceptions of student understanding & misconceptions in bivariate data*. Poster presented at The United States Conference on Teaching Statistics, Columbus, OH.

	Zieffler, A. (2001, June). <i>Using the TI-83 calculator to create fractals</i> . Paper presented at the Saint Cloud State University Fractals & Chaos Workshop, Saint Cloud, MN.	
RESEARCH FUNDING	Garfield, J., delMas, R., & Zieffler, A. (2008). DUE-0814433.. <i>Collaborative research: The CATALST project, Change Agents for Teaching and Learning SStatistics</i> . \$299,974.00	
	Garfield, J., delMas, R., & Zieffler, A. (2008). DUE-0808862.. <i>National statistics teaching practice survey: Instrument development</i> . \$71,887.00	
	Cramer, K.. (2007). <i>Rational number project: Instructional modeule for fractions</i> . Grant evaluator.	
WORKSHOPS	Garfield, J., delMas, R., & Zieffler, A. (2009). <i>Become a catalyst for change in statistics education</i> . A CAUSEway Workshop presented at The Ohio State University, Columbus, OH, June 25, 2009. http://www.causeweb.org/workshop/uscots09_catalyst4change/	
	Kaplan, D., delMas, R., & Zieffler, A. (2009). <i>Starting with R</i> . A workshop presented at Macalester College, St. Paul, MN, February 12, 26, and March 12, 2009. http://www.macalester.edu/~kaplan/startingwithr/	
	Garfield, J., delMas, R., & Zieffler, A. (2008). <i>AIMS: Adapting and Implementing Innovative Materials in Statistics</i> . A CAUSEway Workshop presented at the University of Minnesota, Minneapolis, MN, June 6 - 7, 2008. http://www.causeweb.org/workshop/aims/	
PROFESSIONAL EXPERIENCE	Professional Data Analysts , Minneapolis, MN	
	<i>Statistical Consultant</i>	2008 to Current
SERVICE	Research Advisory Board Member,	2007 to Current
	<i>Consortium for the Advancement of Undergraduate Statistics Education</i>	
	Journal Reviewer,	
	<i>Journal of Statistics Education</i>	2007 to Current
	<i>Statistics Education Research Journal</i>	2004 to Current
	<i>Technology Innovations in Statistics Education</i>	2008 to Current
	Conference Referee,	
	<i>IASE/ICMI Joint Study Conference</i>	2007
	Formatted Statistics Education Graduate Programs Report,	2009
	<i>Statistics Education Graduate Programs Report</i>	

OTHER
PROFESSIONAL
ACTIVITIES

Invited Participant, <i>Second Workshop on Statistics Education Graduate Programs</i>	July, 2009
Invited Participant, <i>Workshop on Statistics Education Graduate Programs</i>	October, 2008
Invited Participant, <i>Integrating Computing into the Statistics Curricula</i>	July, 2008