

DOUGLAS WHITAKER

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Other contact information
Available upon request

EDUCATION

Ph.D. in Statistics Education (*expected*) University of Florida, August 2016
Minor: Research and Evaluation Methodology
Advisor: Tim Jacobbe
M.Stat. in Statistics University of Florida, May 2012
B.A. in Statistics University of Florida, May 2010
B.S. in Mathematics University of Florida, May 2010

RESEARCH INTERESTS

statistics education; pre-service and in-service teacher education; quantitative research methods

PROFESSIONAL EXPERIENCE

2012 – Present **Research Assistant** (LOCUS project – NSF DRL-1118168)
School of Teaching and Learning
University of Florida, Gainesville, FL

2012 **Statistical Consultant**
MCC Statistical Consulting, Gainesville, FL

2011 – 2012 **Instructor**
Department of Statistics
University of Florida, Gainesville, FL

2010 **Research Assistant**
Department of Statistics – IFAS
University of Florida, Gainesville, FL

REFEREED PUBLICATIONS

Whitaker, D.C., Giurcanu, M.C., Young, L.J., Gonzalez, P., Etxeberria, E., Roberts, P., Hendricks, K., & Roman, F. (2014). High Starch Content in Citrus Leaves as a Predictor of Huanglongbing Disease. *HortScience*, 49(6), 757-762.
Retrieved from <http://hortsci.ashspublications.org/content/49/6/757.full.pdf>

Jacobbe, T., Hartlaub, B.A., & Whitaker, D. (2013). Motivation for and Benefits from Attending the AP Statistics Reading. *Journal of Education and Training Studies*, 1(2), 32-37. <http://dx.doi.org/10.11114/jets.v1i2.135>

Joseph, A. & Whitaker, D. (2010). Effects of Teaching Suprasegmentals on Second Language Learning and Motivation. *University of Florida Journal of Undergraduate Research*, 12(1), 1-10. Retrieved from <http://ufdc.ufl.edu/UF00091523/00119>

CONFERENCE PROCEEDINGS

Jacobbe, T., Case, C., Whitaker, D., & Foti, S. (2014). Establishing the validity of the LOCUS assessments through an evidenced-centered design approach. In K. Makar & R. Gould (Eds.), *Sustainability in statistics education. Proceedings of the Ninth International Conference on Teaching Statistics (ICOTS9, July, 2014), Flagstaff, Arizona, USA*. Voorburg, The Netherlands: International Statistical Institute. Retrieved from http://icots.net/9/proceedings/pdfs/ICOTS9_7C2_JACOBBE.pdf

Jacobbe, T., Foti, S., Case, C., & Whitaker, D. (2014). High school (ages 14 – 18) students' understanding of statistics. In K. Makar & R. Gould (Eds.), *Sustainability in statistics education. Proceedings of the Ninth International Conference on Teaching Statistics (ICOTS9, July, 2014), Flagstaff, Arizona, USA*. Voorburg, The Netherlands: International Statistical Institute. Retrieved from http://icots.net/9/proceedings/pdfs/ICOTS9_2C2_CASE.pdf

Jacobbe, T., Foti, S., & Whitaker, D. (2014). Middle school (ages 10 – 13) students' understanding of statistics. In K. Makar & R. Gould (Eds.), *Sustainability in statistics education. Proceedings of the Ninth International Conference on Teaching Statistics (ICOTS9, July, 2014), Flagstaff, Arizona, USA*. Voorburg, The Netherlands: International Statistical Institute. Retrieved from http://icots.net/9/proceedings/pdfs/ICOTS9_2B1_FOTI.pdf

Jacobbe, T., Whitaker, D., Case, C., & Foti, S. (2014). The LOCUS assessment at the college level: conceptual understanding in introductory statistics. In K. Makar & R. Gould (Eds.), *Sustainability in statistics education. Proceedings of the Ninth International Conference on Teaching Statistics (ICOTS9, July, 2014), Flagstaff, Arizona, USA*. Voorburg, The Netherlands: International Statistical Institute. Retrieved from http://icots.net/9/proceedings/pdfs/ICOTS9_3C3_WHITAKER.pdf

Whitaker, D., Foti, S., & Jacobbe, T. (2014). Investigation of AP statistics students' understanding of technical terminology with possible lexical ambiguities [Abstract]. In K. Makar & R. Gould (Eds.), *Sustainability in statistics education. Proceedings of the Ninth International Conference on Teaching Statistics (ICOTS9, July, 2014), Flagstaff, Arizona, USA*. Voorburg, The Netherlands: International Statistical Institute. Retrieved from http://icots.net/9/proceedings/pdfs/ICOTS9_3C3_WHITAKER.pdf

Whitaker, D.C., Giurcanu, M.C., Young, L.J., Gonzalez, P., Etxeberria, E., Roberts, P., Hendricks, K., & Roman, F. (2013). Starch Content in Citrus Leaves: A Test with Seasonal Accuracy. In *Proceedings of the Florida State Horticultural Society*, 126, 75-83.

OTHER PUBLICATIONS

Whitaker, D. & Jacobbe, T. (2014). Lessons from the LOCUS Assessments (Part 1): Comparing Groups. *Statistics Teacher Network*, (83), 13-15. Retrieved from <http://www.amstat.org/education/stn/pdfs/STN83.pdf>

MANUSCRIPTS UNDER REVIEW

Gaulee, U., Lee, B., Ridgewell, N.K., Butcher, C., Koro-Ljungberg, M., Whitaker, D., Almazam, F., & Watson, D. M. A Constructivist Study of Graduate Students' Health Care Experiences.

Halbritter, D.A., Daniels, J.C., Whitaker, D.C., & Huang, L. Reducing mowing frequency increases floral resource and butterfly abundance in managed roadside margins.

MANUSCRIPTS IN PREPARATION

Jacobbe, T., Haberstroh, J., Whitaker, D., Case, C., & Foti, S. The Evidence Centered Design Process as Implemented in the LOCUS Assessments.

Whitaker, D. A Brief Argument against the Binary Gender Options in Surveys.

Whitaker, D., Giurcanu, M.C, Etxeberria, E., & Young, L.J. Citrus Greening Disease: A Data Set and Story.

Whitaker, D. & Jacobbe, T. A Characterization of Students' Understanding of Statistics: Results from the LOCUS Pilot Assessment.

NATIONAL AND INTERNATIONAL PRESENTATIONS

Case, C., Whitaker, D., Jacobbe, T., & Foti, S. (2014, July). *High school (ages 14 – 18) students' understanding of statistics*. Paper presented at the Ninth International Conference on Teaching Statistics (ICOTS), Flagstaff, AZ, USA.

Foti, S., Whitaker, D., & Jacobbe, T. (2014, July). *Middle school (ages 10 – 13) students' understanding of statistics*. Paper presented at the Ninth International Conference on Teaching Statistics (ICOTS), Flagstaff, AZ, USA.

Jacobbe, T., Whitaker, D., Foti, S., & Case, C. (2014, July). *Establishing the validity of the LOCUS assessments through an evidenced-centered design approach*. Paper presented at the Ninth International Conference on Teaching Statistics (ICOTS), Flagstaff, AZ, USA.

Whitaker, D., Foti, S., & Jacobbe, T. (2014, July). *Investigation of AP statistics students' understanding of technical terminology with possible lexical ambiguities*. Poster presented at the Ninth International Conference on Teaching Statistics (ICOTS), Flagstaff, AZ, USA.

Whitaker, D., Jacobbe, T., Foti, S., & Case, C. (2014, July). *The LOCUS assessment at the college level: conceptual understanding in introductory statistics*. Paper presented at the Ninth International Conference on Teaching Statistics (ICOTS), Flagstaff, AZ, USA.

Jacobbe, T., Whitaker, D., Case, C., & Foti, S. (2014, April). *LOCUS: A Tool for Assessing Statistical Reasoning in the CCSS*. Presented at National Council of Teachers of Mathematics Annual Conference (NCTM), New Orleans, LA.

Jacobbe, T., delMas, R.C., Haberstroh, J., Hartlaub, B., Whitaker, D., Case, C., & Foti, S. (2014, April). *A Measure of Students' Understanding of Statistics*. Poster presented at the American Educational Research Association Annual Meeting (AERA), Philadelphia, PA.

Jacobbe, T., Haberstroh, J., delMas, R.C., Hartlaub, B., Whitaker, D., Case, C., & Foti, S. (2014, April). *Establishing the Content Validity of the LOCUS Assessments Through Evidence-Centered Design*. Paper presented at the American Educational Research Association Annual Meeting (AERA), Philadelphia, PA.

Whitaker, D. & Case, C. (2013, August). *Locus Pilot Study and Preliminary Findings*. Topic Contributed Paper presented at the Joint Statistics Meetings (JSM), Montreal, QC, Canada.

Pennock Schaub, M., Wade, D., & Whitaker, D. (2012, October). *The Effects of Attitude and Explicit Instruction on Second Language Phonological Skills: Voiceless Occlusives and Vowels*. Poster presented at The 2012 Hispanic Linguistics Symposium, Gainesville, FL.

STATE AND REGIONAL PRESENTATIONS

Gaulee, U., Lee, B., Ridgewell, N.K., Butcher, C., Koro-Ljungberg, M., Whitaker, D., Almazam, F., & Watson, D. M. (2013, November). *Constructivist Study of Graduate Students' Health Care Experiences*. Paper presented at the 58th Annual Meeting of the Florida Educational Research Association (FERA), Gainesville, FL.

Whitaker, D., Giurcanu, M., Gonzalez, P., Roberts, P., Hendricks, K., Roman, F., Young, L., & Etxeberria, E. (2013, June). *Using Citrus Leaf Starch Content to Predict Huanglongbing Disease with and without a Gold Standard*. Paper presented at The 126th Annual Meeting of the Florida State Horticultural Society, Sarasota, FL.

LOCAL PRESENTATIONS

Doğan, S., Smithka, I., & Whitaker, D. (2014, April). *Lecture Plus: How to Lecture More Effectively*. Poster presented at The 10th Annual SAGE Research Symposium, Gainesville, FL.

Whitaker, D. (2014, April). *Worlds Collide: The Vocabulary of AP Statistics Students*. Poster presented at The 10th Annual SAGE Research Symposium, Gainesville, FL.

Whitaker, D. & Jacobbe, T. (2013, April). *The Evolution of Items from the LOCUS Assessment*. Poster presented at The 9th Annual SAGE Research Symposium, Gainesville, FL.

DIGITAL PRESENTATIONS

Case, C., Whitaker, D., Foti, S., & Jacobbe, T. (2014, May). *LOCUS as a Tool to Measure Teachers' Preparation to Teach Statistics*. Poster presented at The Second Biennial Electronic Conference on Teaching Statistics (eCOTS).

SOFTWARE

Whitaker, D. & Christman, M. (2010). *clustsig: Similarity Profile Analysis*. R package version 1.0. <http://cran.r-project.org/web/packages/clustsig/index.html> [2014: version 1.1 released]

COURSES TAUGHT

*Note: * denotes Instructor of Record; † denotes Co-Instructor; ‡ denotes Team Teaching*

University of Florida, Gainesville, FL

- *Introduction to Statistics I (undergraduate: Fall 2011)
- *Introduction to Statistics II (undergraduate: Spring 2011, Spring 2012, Summer B 2012)
- †Research Methods of Construction (graduate: Fall 2012)
- †Teaching K-8 Math Methods (graduate: Summer A 2013)

P.K. Yonge Developmental Research School, Gainesville, FL

- ‡Advanced Placement (AP) Statistics (AY 2013-2014)

AWARDS

2012 – 2016 Graduate School Fellowship, University of Florida
2010 Elected to Phi Beta Kappa, University of Florida

GRANTS

2014 University of Florida, Mathematics Education Program Travel Grant (\$800)
2014 University of Florida, School of Teaching and Learning Travel Grant (\$450)
2013 University of Florida, Graduate Student Council Travel Grant (\$250)
2013 University of Florida, School of Teaching and Learning Travel Grant (\$500)

SERVICE

2014 Session Chair, Ninth International Conference on Teaching Statistics (ICOTS)
2014 Judge, American Statistical Association's K-12 Poster Competition
2013 Reviewer, Ninth International Conference on Teaching Statistics (ICOTS)
2013 – Present Reviewer, *Statistics Education Research Journal* (SERJ)
2012 – Present Reviewer, *Journal of Statistics Education* (JSE)
2012 – Present Reviewer, *Teaching Children Mathematics* (TCM)
2013 – Present I-Cubed Graduate Student Advisory Council Member
2012 – Present Science Fair Judge, Alachua County Public Schools
2012 – 2013 President of Statistics Club at University of Florida
2011 – 2012 Student Seminar Coordinator, Department of Statistics, University of Florida

PROFESSIONAL MEMBERSHIPS

2013 – Present Member, American Educational Research Association (AERA)
2013 – Present Member, Association of Mathematics Teacher Educators (AMTE)
2013 – Present Member, Institute of Mathematical Statistics (IMS)
2013 – Present Member, National Council of Teachers of Mathematics (NCTM)
2011 – Present Member, American Statistical Association (ASA)