

DOUGLAS WHITAKER

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PROFESSIONAL EXPERIENCE

- 2018 – Present Assistant Professor
Department of Mathematics and Statistics
Mount Saint Vincent University, Halifax, NS
- 2016 – 2018 Assistant Professor
Department of Mathematics, Statistics, and Computer Science
University of Wisconsin-Stout, Menomonie, WI

EDUCATION

- 2016 Ph.D. in Statistics Education, University of Florida
 Minor: Quantitative Research and Evaluation Methodology
- 2012 M.Stat. in Statistics, University of Florida
- 2010 B.A. in Statistics, University of Florida
- 2010 B.S. in Mathematics, University of Florida

PUBLICATIONS

Peer-Reviewed Journal Articles

Note: * denotes with a student

Whitaker, D., Unfried, A., & Bond, M.E. (in press). Challenges associated with measuring attitudes using the SATS family of instruments. *Statistics Education Research Journal*.

*Whitaker, D., Barss, J., & Drew, B. (2022). Measuring Opportunity Cost in Statistics Using Evaluative Space Grid Items: Results from a Pilot Study. *Journal of Research in Science, Mathematics, and Technology Education*, 5(1), 1–36.
<https://doi.org/10.31756/jrsmt.511>

Whitaker, D. (2020). Epistemic and mathematical beliefs of exemplary statistics teachers. *International Journal for Mathematics Teaching and Learning*, 21(2), 119–142.
<https://www.cimt.org.uk/ijmtl/index.php/IJMTL/article/view/253>

Mason, K., Stanislawski, D., & Whitaker, D. (2019). Developing embedded signature assessments for continuous improvement in teacher education. *The Teacher Educator*, 54(2), 171–192. <https://doi.org/10.1080/08878730.2018.1520375>

- Whitaker, D. & Jacobbe, T. (2017). Students' understanding of bar graphs and histograms: Results from the LOCUS assessments. *Journal of Statistics Education*, 25(2), 90-102. <http://dx.doi.org/10.1080/10691898.2017.1321974>
- Whitaker, D. (2016). Lexical ambiguities in the vocabulary of statistics. *International Journal for Mathematics Teaching and Learning*, 17(3). <http://www.cimt.org.uk/ijmtl/index.php/IJMTL/article/view/31>
- Kennedy-Lewis, B.L., Whitaker, D., & Soutullo, O. (2016). "Maybe that helps folks feel better about what they're doing": Examining contradictions between educator presumptions, student experiences, and outcomes at an alternative school. *Journal of Education for Students Placed at Risk*, 21(4), 230-245. <http://dx.doi.org/10.1080/10824669.2016.1220308>
- Halbritter, D.A., Daniels, J.C., Whitaker, D.C., & Huang, L. (2015). Reducing mowing frequency increases floral resource and butterfly abundance in managed roadside margins. *Florida Entomologist*, 98(4), 1081-1092. <https://journals.flvc.org/flaent/article/view/85018/>
- Huggins-Manley, A.C., & Whitaker, D. (2015). SEAsic: R package for score equity assessment. *Applied Psychological Measurement*, 39(6), 496-497. <http://dx.doi.org/10.1177/0146621615572832>
- Whitaker, D., Foti, S., & Jacobbe, T. (2015). The Levels of Conceptual Understanding in Statistics (LOCUS) project: Results of the pilot study. *Numeracy*, 8(2), Article 3. <https://scholarcommons.usf.edu/numeracy/vol8/iss2/art3/>
- Gaulee, U., Lee, B., Whitaker, D., Ridgewell, N.K., Koro-Ljungberg, M., Watson, D. M., & Butcher, C. (2015). A constructivist study of graduate students' health care experiences. *The Qualitative Report*, 20(7), 482-497. <https://nsuworks.nova.edu/tqr/vol20/iss4/10/>
- Whitaker, D.C., Giurcanu, M.C., Young, L.J., Gonzalez, P., Etxeberria, E., Roberts, P., Hendricks, K., & Roman, F. (2014). Starch content of citrus leaves permits diagnosis of huanglongbing in the warm season but not cool season. *HortScience*, 49(6), 757-762. <https://journals.ashs.org/hortsci/view/journals/hortsci/49/6/article-p757.xml>
- 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://redfame.com/journal/index.php/jets/article/viewFile/135/108>
- 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. <http://ufdc.ufl.edu/UF00091523/00119>

Book Chapters

Whitaker, D., Unfried, A., & Bond, M. (2019). Design and validation arguments for the Student Survey of Motivational Attitudes toward Statistics (S-SOMAS) instrument. In J. Bostic, E. Krupa, & J. Shih (Eds.), *Assessment in mathematics education contexts: Theoretical frameworks and new directions* (1st ed., pp. 120–146). New York, NY: Routledge.

Refereed Teaching Articles

Whitaker, D. (2021). Nonlinear modeling: Something fishy. *Statistics Teacher*.
<https://www.statisticteacher.org/2021/03/29/nonlinear-modeling-something-fishy/>

Case, C. & Whitaker, D. (2016). Innocent until proven guilty: Exploring statistical power through simulations. *Mathematics Teacher*, 109(9), 686-692.
<https://www.jstor.org/stable/10.5951/mathteacher.109.9.0686>

Editor-Reviewed Articles

Whitaker, D. (2017) Navigating the assessment landscape: Reflecting on my experiences. *Intersection Points: The Newsletter of the Research Council on Mathematical Learning*, 41(3), 9-10. <https://www.rcml-math.org/assets/Newsletter/rcml%20newsletter%20jan%202017.pdf#page=9>

Whitaker, D. & Jacobbe, T. (2014). Lessons from the LOCUS assessments (part 1): Comparing groups. *Statistics Teacher Network*, (83), 13-15.
<https://www2.amstat.org/education/stn/pdfs/STN83.pdf#page=13>

Conference Proceedings

Whitaker, D., Bolch, C., Harrell-Williams, L., Casey, S., Huggins-Manley, C., Engledowl, C., & Tjoe, H. (in press). The search for validity evidence for instruments in statistics education: Preliminary findings. *Statistics Education in the Era of Data Science. Proceedings of the Satellite Conference of the International Association for Statistical Education (IASE)*.

Whitaker, D. (2020). Challenges Assessing Statistics Attitudes: Opportunities and Costs. *Proceedings of the 47th Annual Meeting of the Research Council on Mathematics Learning*, 43-50. <https://www.rcml-math.org/assets/Proceedings/RCML%202020%20Proceedings%202-19-20.pdf#page=49>

Whitaker, D., Unfried, A., & Batakci, L. (2018). A framework and survey for measuring students' motivational attitudes toward statistics. In M. A. Sorto, A. White, & L. Guyot (Eds.), *Looking back, looking forward. Proceedings of the Tenth International Conference on Teaching Statistics (ICOTS10, July, 2018)*. Voorburg, The Netherlands:

International Statistical Institute. http://iase-web.org/icots/10/proceedings/pdfs/ICOTS10_C200.pdf

Whitaker, D. & Gorney, K. (2017). Surveys of attitudes about statistics: An analysis of items [Abstract]. In Galindo, E., & Newton, J., (Eds.). *Proceedings of the 39th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (p. 1075). Indianapolis, IN: Hoosier Association of Mathematics Teacher Educators.
<http://www.pmena.org/pmenaproceedings/PMENA%2039%202017%20Proceedings.pdf#page=1089>

Whitaker, D. (2016). The development of a professional statistics teaching identity. In Wood, M.B., Turner, E.E., Civil, M., & Eli, J.A. (Eds.), *Proceedings of the 38th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 992-999). Tucson, AZ: The University of Arizona.
<http://www.pmena.org/pmenaproceedings/PMENA%2038%202016%20Proceedings.pdf#page=1006>

Whitaker, D. (2015). In-service statistics teachers' professional identities [Abstract]. In Bartell, T.G., Bieda, K.N., Putnam, R.T., Bradfield, K., & Dominguez, H. (Eds.), *Proceedings of the 37th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (p. 482). East Lansing, MI: Michigan State University.
<http://www.pmena.org/pmenaproceedings/PMENA%2037%202015%20Proceedings.pdf#page=493>

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*. Voorburg, The Netherlands: International Statistical Institute.
http://icots.info/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*. Voorburg, The Netherlands: International Statistical Institute. http://icots.info/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*. Voorburg, The Netherlands: International Statistical Institute. http://icots.info/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. Voorburg, The Netherlands: International Statistical Institute.
http://icots.info/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.* Voorburg, The Netherlands: International Statistical Institute.
http://icots.info/icots/9/proceedings/pdfs/ICOTS9_P13_WhitakerJacobbeFoti.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. *Proceedings of the Florida State Horticultural Society*, 126, 75-83.
<https://journals.flvc.org/fshs/article/view/83686/80498>

PRESENTATIONS

Invited Presentations

Frischemeier, D., Leavy, A., & Whitaker, D. (2021, July). *Session of the IASE Journal – Statistics Education Research Journal (SERJ)*. Panel discussion at the 63rd ISI World Statistics Congress (WSC), Virtual. Organizer: J. Kaplan.

Foti, S., Loy, A., Whitaker, D., & Ziegler, L. (2021, June). *Lessons for the future from a year of COVID teaching*. Panel discussion at the Symposium on Data Science & Statistics 2021 (SDSS), Virtual. Organizer: L. Le.

Whitaker, D. & Jacobbe, T. (2015, June). *LOCUS: Assessing conceptual understanding of statistics*. Presented at the Statistics Society of Canada 2015 Annual Meeting (SSC), Halifax, NS.

Whitaker, D., & Jacobbe, T. (2014, October). *LOCUS: A tool for assessing statistical reasoning in the CCSS*. Presented at the National Council of Teachers of Mathematics 2014 Regional Conference and Exposition, Indianapolis, IN.

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.

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.

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

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.

National and International Presentations

Note: * denotes with a student

Whitaker, D., Bolch, C., Harrell-Williams, L., Casey, S., Huggins-Manley, C., Engledowl, C., & Tjoe, H. (2021, September). *The search for validity evidence for instruments in statistics education: preliminary findings*. Paper presented at the International Association for Statistical Education (IASE) 2021 Satellite Conference, Virtual.

Unfried, A., Posner, M., Bond, M., Kerby-Helm, A., Bolon, W., Whitaker, D., & Batakci, L. (2021, August). *Why Do We Need Yet ANOTHER Instrument Measuring Student Attitudes?* Presentation at the 2021 Joint Statistical Meetings (JSM), Virtual.
<http://sdsattitudes.com/wp/jsm2021/>

*Hebert, N. & Whitaker, D. (2021, July). *Examining the use of the LOCUS assessment with undergraduate students*. Poster presented at the United States Conference on Teaching Statistics (USCOTS) 2021, Virtual. <https://www.causeweb.org/cause/uscots/uscots21/th-16-examining-use-locus-assessment-undergraduate-students>

Bond, M., Batakci, L., Kerby-Helm, A., Unfried, A., & Whitaker, D. (2021, July). *SOMAS/DS: Measuring the learning environment, the instructor, and the student*. Poster presented at the United States Conference on Teaching Statistics (USCOTS) 2021, Virtual.
<https://www.causeweb.org/cause/uscots/uscots21/th-13-somasds-measuring-learning-environment-instructor-and-student>

Whitaker, D., Batakci, L., Bolon, W., Bond, M., Kerby-Helm, A., & Unfried, A. (2021, June). *Students' motivational attitudes about statistics: Results from the S-SOMAS pilot*. Poster presented at the United States Conference on Teaching Statistics (USCOTS) 2021, Virtual. <https://www.causeweb.org/cause/uscots/uscots21/we-09-students%E2%80%99-motivational-attitudes-about-statistics-results-s-somas-pilot>

Harrell-Williams, L., Manley, C., Tjoe, H., Casey, S., Engledowl, C., Whitaker, D., & Bolch, C. (2021, June). *Expanding opportunities: Facilitating discussions to improve measurement practices in statistics education research*. Poster presented at the United States Conference on Teaching Statistics (USCOTS) 2021, Virtual.
<https://www.causeweb.org/cause/uscots/uscots21/we-15-expanding-opportunities-facilitating-discussions-improve-measurement-practices>

Whitaker, D. (2021, June). *Developing and revising the Student Survey of Motivational Attitudes Toward Statistics: Results from a pilot study*. Presentation at the Statistics Society of Canada 2021 Annual Meeting (SSC), Virtual.

- *Whitaker, D., & White, A. (2020, May). *Measuring statistics attitudes and anxieties*. Poster presented at The Fifth Biennial Electronic Conference on Teaching Statistics (eCOTS), Virtual. <https://www.causeweb.org/cause/ecots/ecots20/posters/2-05>
- Whitaker, D. (2020, March). *Challenges assessing statistics attitudes: Opportunities and costs*. Paper presented at the 47th Annual Meeting of the Research Council on Mathematics Learning, Las Vegas, NV.
- Whitaker, D., Unfried, A., & Bond, M. (2019, May). Challenges to using and interpreting the SATS-36 instrument: Do you like statistics? Do your students like statistics? How do you know? Poster presented at the United States Conference on Teaching Statistics (USCOTS) 2019, State College, PA.
- Bond, M., Batakci, L., Bolon, W., & Whitaker, D. (2019, May). *Environment matters: Institution, course and pedagogy*. Poster presented at the United States Conference on Teaching Statistics (USCOTS) 2019, State College, PA.
- Harrell-Williams, L.M. & Whitaker, D. (2019, May). *Evaluating validity evidence for instruments in statistics education*. Breakout session for the United States Conference on Teaching Statistics (USCOTS) 2019, State College, PA.
- Whitaker, D., Unfried, A., & Batakci, L. (2018, July). *A framework and survey for measuring students' motivational attitudes toward statistics*. Paper presented at the 10th International Conference on Teaching Statistics (ICOTS), Kyoto, Japan.
- Whitaker, D. (2018, July). *Validity evidence claims and plan for the SOMAS instruments*. Poster presented at the 10th International Conference on Teaching Statistics (ICOTS), Kyoto, Japan.
- Stanislawski, D., Mason, K., & Whitaker, D. (2018, March). *Development and use of embedded signature assessments for continuous improvement and assessment*. Presented at the American Association of Colleges for Teacher Education Annual Meeting (AACTE) 2018 Annual Meeting, Baltimore, MD.
- Whitaker, D. (2018, February). *Pre-service mathematics teachers' attitudes about statistics: Pilot study of a new instrument*. Poster presented at the Twenty-Second Annual Conference of the Association of Mathematics Teacher Educators (AMTE), Houston, TX.
- *Whitaker, D. & Gorney, K. (2017, November). *Surveys of attitudes about statistics: An analysis of items*. Poster presented at the 39th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA), Indianapolis, IN.
- Whitaker, D. (2017, May). *The attitudes and beliefs of exemplary statistics teachers*. Poster presented at the United States Conference on Teaching Statistics (USCOTS) 2017, State College, PA.

- Whitaker, D. (2017, May). *Research and data ethics in the statistics classroom*. Poster presented at the United States Conference on Teaching Statistics (USCOTS) 2017, State College, PA.
- Whitaker, D. (2017, February). *How mathematics teachers became exemplary statistics teachers*. Presented at the Twenty-First Annual Conference of the Association of Mathematics Teacher Educators (AMTE), Orlando, FL.
- Whitaker, D. (2016, November). *The development of a professional statistics teaching identity*. Paper presented at the 38th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA), Tucson, AZ.
- Whitaker, D. (2016, August). *The Professional identities of exemplary Advanced Placement Statistics teachers*. Presented at the 2016 Joint Statistical Meetings (JSM), Chicago, IL.
- Whitaker, D. (2016, May). *Statistics as a potential way to change mathematics instruction in high school teachers*. Poster presented at The Third Biennial Electronic Conference on Teaching Statistics (eCOTS), Virtual.
<https://www.causeweb.org/cause/ecots/ecots16/posters/c/6>
- Kennedy-Lewis, B.L., Whitaker, D., & Soutullo, O. (2016, April). Educators' justifications for sending students to a disciplinary alternative school versus student outcomes: Examining consistencies and contradictions. Presented at the American Educational Research Association Annual Meeting (AERA), Washington, DC.
- Whitaker, D. (2016, February). *The development of exemplary statistics teachers' professional identities*. Presented at the 43rd Annual Conference of the Research Council on Mathematics Learning (RCML), Orlando, FL.
- Whitaker, D. (2015, November). *In-service statistics teachers' professional identities*. Poster presented at the 37th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA), East Lansing, MI.
- Whitaker, D. (2015, June). *Students' understanding of histograms and bar graphs: Results from the LOCUS assessments*. Poster presented at the Statistics Society of Canada 2015 Annual Meeting (SSC), Halifax, NS.
- Whitaker, D. (2015, June). *Transition and collaboration: The identity of an AP Statistics teacher*. Poster presented at the Statistics Society of Canada 2015 Annual Meeting (SSC), Halifax, NS.
- Whitaker, D. (2015, June). *Transition and collaboration: The identity of an AP Statistics teacher*. Poster presented at the 3rd Annual SSC Student Conference, Halifax, NS.

- delMas, R., Jacobbe, T., & Whitaker, D. (2015, May). *Establishing the validity and reliability of assessments of statistical understanding*. Poster presented at the United States Conference On Teaching Statistics 2015 (USCOTS), State College, PA.
- Case, C., Foti, S., Whitaker, D., & Jacobbe, T. (2015, February). *LOCUS: Assessing students' and teachers' knowledge of statistics*. Presented at the Research Council on Mathematics Learning 42nd Annual Meeting (RCML), Las Vegas, NV.
- Case, C., Foti, S., & Whitaker, D. (2014, November). *The impact of collaborative teaching for graduate students*. Presented at the School Science and Mathematics Association 2014 Annual Convention (SSMA), Jacksonville, FL.
- Whitaker, D., Foti, S., Case, C., & Jacobbe, T. (2014, November). *LOCUS assessments: Implications for and uses in research and teaching*. Presented at the School Science and Mathematics Association 2014 Annual Convention (SSMA), Jacksonville, FL.
- 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.
- 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), Virtual.
<https://www.causeweb.org/cause/ecots/ecots14/posters/5/>
- 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 2013 Joint Statistical Meetings (JSM), Montréal, QC.
- 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.

Regional, State, and Provincial Presentations

Whitaker, D. (2016, May). *Four tensions from changing with technology: In search of balance*. Presented at the eCOTS 2016 North Florida Regional Mini Conference, Gainesville, FL.

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

Foti, S., Case, C., & Whitaker, D. (2014, October). *The impact of collaborative teaching for graduate students*. Poster presented at the 2014 Graduate Student Research Day, Gainesville, FL.

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.

R PACKAGES

Note: * denotes with a student

*Whitaker, D., Drew, B., & Barss, J. (2021) *GridItemTools: Grid item tools*. R package version 0.0.12. <https://github.com/douglaswhitaker/GridItemTools>

*Whitaker, D. & Hebert, N. (2021). *MVQuickGraphs: Quick multivariate graphs*. R package version 0.1.6. <https://github.com/douglaswhitaker/MVQuickGraphs> [2020: version 0.1.2 released on CRAN]

Schau, C., Bond, M. E., & Whitaker, D. (2021). *SATSdata: Survey of Attitudes Toward Statistics (SATS) Data Warehouse*. R package version 1.0.0. <https://github.com/douglaswhitaker/SATSdata> [2021: version 0.1.6 released]

Huggins-Manley, A.C. & Whitaker, D. (2014). *SEAsic: Score equity assessment- summary index computation*. R package version 0.1. <http://cran.r-project.org/package=SEAsic>

Whitaker, D. & Christman, M. (2014). *clustsig: Similarity profile analysis*. R package version 1.1. <http://cran.r-project.org/package=clustsig> [2010: version 1.0 released on CRAN]

COURSES TAUGHT

Note: * denotes Co-Instructor; † denotes Team Teaching

Mount Saint Vincent University

- Introduction to Probability (undergraduate: Fall 2018, Winter 2020)
- Introduction to Statistics I (undergraduate: six semesters beginning in Fall 2018)
- Introduction to Statistics II (undergraduate: Winter 2019)
- Introduction to Nonparametric Statistics (undergraduate: Fall 2020)
- Survey Design (undergraduate: Winter 2021)
- Intermediate Applied Statistics I: Linear Models (undergraduate: Fall 2019, Fall 2021)
- Independent Study Courses:
 - Intermediate Applied Statistics I: Linear Models (undergraduate: 1 student during one semester)
- Directed Study Courses:
 - Advanced Survey Analysis (undergraduate: 2 students during one semester)

University of Wisconsin-Stout

- Multivariate Statistical Analysis (graduate: Fall 2017, Spring 2019)
- Statistical Methods (undergraduate & graduate: Fall 2017, Spring 2018, Summer 2018)
- Elementary Statistics Honors (undergraduate: Spring 2018)
- Elementary Statistics (undergraduate: Summer 2017, Summer 2018)
- Concepts of Mathematics (undergraduate: Fall 2016, Spring 2017)
- Intermediate Algebra (undergraduate: Fall 2016, Spring 2017, Fall 2017, Spring 2018)
- Independent Study Courses:
 - Applied Multivariate Statistical Methods (undergraduate: 3 students during one semester)

University of Florida

- Introduction to Statistics I (undergraduate: Fall 2011)
- Introduction to Statistics II (undergraduate: Spring 2011, Spring 2012, Summer B 2012)
- Mathematics Content and Methods for Teaching Mathematics in the Inclusive Elementary Class Part 2 (undergraduate: Fall 2015)
- *Teaching K-8 Math Methods (graduate: Summer A 2013)
- *Research Methods of Construction (graduate: Fall 2012)

P.K. Yonge Developmental Research School

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

SUPERVISION

Graduate Students

Katerina Allan, M.A.Ed. in Curriculum Studies (2021 – Present)

Thesis Title: *Development and validation of an introductory statistics placement test [tentative]*

Undergraduate Students

Bailey Drew, B.Sc. (Honours) in Mathematics with Statistics Specialization (2021)

Project Title: *Determining groups of student attitudes using cluster analysis*

Nathan Hebert, B.Sc. (Honours) in Mathematics with Statistics Specialization (2021)

Project Title: *Use of the LOCUS assessment with undergraduate students: an application of multivariate and logistic regression analyses*

FELLOWSHIPS AND AWARDS

2017 – 2018	AMTE Service, Teaching, and Research (STaR) Fellowship
2014 – 2015	Community for Advancing Discovery Research in Education (CADRE) Fellowship, Education Development Center (EDC)
2014	I-Cubed Graduate Student Mentoring Award (with Catherine Case and Steven Foti), University of Florida
2012 – 2016	Graduate School Fellowship, University of Florida
2010	Elected to Phi Beta Kappa, University of Florida

RESEARCH GRANTS

External Awarded

Unfried, A., Posner, M.A., Bond, M., Whitaker, D., & Kerby, A. (2020—2023). *Developing Validated Instruments to Measure Student/Faculty Attitudes in Undergraduate Statistics and Data Science Education*. Funding Agency: National Science Foundation (NSF DUE-2013392). US\$599,998. Role: Co-Principal Investigator.

Internal Awarded

Whitaker, D. (2020—2021). *[Special Competition for Student Research Assistantships]*. Mount Saint Vincent University: Committee on Research and Publications. Can\$3,315.00. Role: Principal Investigator. Research Assistant: Nathan Hebert

Whitaker, D. (2019—2021). *Investigation of Non-Likert-Type Scales for Measuring Affective Outcomes in Statistics Education*. Mount Saint Vincent University: Committee on Research and Publications. Can\$9,998.00. Role: Principal Investigator.

Whitaker, D. (2018—2019). *[Graduate Student Assistantship]*. Mount Saint Vincent University: Graduate Studies Scholarships, Assistantships, and Awards Committee. Can\$1,431.52. Role: Principal Investigator. Research Assistant: Carlotta Heymann

TRAVEL GRANTS

External Organizations

- 2017 Validity Evidence for Measurement in Mathematics Education Conference (US\$850 + hotel)
- 2015 Statistics Society of Canada, Statistical Education Section – Registration Fee (Can\$215)
- 2013 Florida State Horticultural Society Conference Travel Grant (US\$200)

Mount Saint Vincent University

- 2021 Dean's Committee on Travel Allocations Travel Grant (Can\$337 total)
- 2019 Dean's Committee on Travel Allocations Travel Grant (Can\$2,000 total)

University of Wisconsin-Stout

- 2017 Professional Development Grant (with undergraduate student Kylie Gorney) (US\$1,500)
- 2017 Professional Development Grant (US\$1,147)

University of Florida

- 2015 Graduate Student Council Travel Grant (US\$350)
- 2015 School of Teaching and Learning Travel Grant (US\$350)
- 2014 School of Teaching and Learning Travel Grant (US\$350)
- 2014 Mathematics Education Program Travel Grant (US\$800)
- 2014 School of Teaching and Learning Travel Grant (US\$450)
- 2013 Graduate Student Council Travel Grant (US\$250)
- 2013 School of Teaching and Learning Travel Grant (US\$500)

SERVICE

Mount Saint Vincent University

- 2021 – Present Member, Academic Appeals Committee
- 2020 – 2021 Member, Assistant Professor of Mathematics Department
Appointments Committee

2020 – Present	Member, Department of Mathematics and Statistics website improvement ad-hoc committee
2018 – 2021	Mathematics Department Library Liaison

University of Wisconsin-Stout

2017 – 2018	Mathematics Education Concentration Coordinator
2017 – 2018	Member, Bachelor of Science in Science Education Advisory Committee
2017 – 2018	Member, Assistant Professor of Statistics Search Committee, Department of Mathematics, Statistics, and Computer Science
2017	Salary Equity Statistical Model Review
2017	Member, Math Teaching and Learning Center Coordinator Search Committee, Department of Mathematics, Statistics, and Computer Science
2016 – 2018	Mathematics Education Program Representative, School of Education Council
2016 – 2018	Member, Colloquium Committee, Department of Mathematics, Statistics, and Computer Science

Service to the Profession

2021	Session Chair, Twelfth International Association for Statistical Education (IASE) Satellite Conference
2021	Session Moderator, Statistics Society of Canada 2021 Annual Meeting (SSC)
2018 – Present	Associate Editor, Statistics Education Research Journal (SERJ)
2018 – Present	Co-Editor, Statistics Teaching and Learning Corner (stattlc.com)
2014	Session Chair, Ninth International Conference on Teaching Statistics (ICOTS)
2014	Judge, American Statistical Association's National K-12 Poster Competition

Service to the Community

2019 – 2020	Presented biostatistics seminars for internationally educated physicians and pharmacists, Immigrant Services Association of Nova Scotia (ISANS)
2015	Judge, Alachua County VEX Robotics Competition
2012 – 2016	Science Fair Judge, Alachua County Public Schools

Ad-hoc Refereeing Service

International Journal for Mathematics Teaching and Learning (IJMTL)
Investigations in Mathematics Learning (IML)
Journal of Statistics Education (JSE)

Statistics Education Research Journal (SERJ)
Teaching Children Mathematics (TCM)
Teaching Innovations in Statistics Education (TISE)
The Mathematics Educator (TME)
38th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA)
43rd Annual Conference of the Research Council on Mathematics Learning (RCML)
Ninth International Conference on Teaching Statistics (ICOTS)
Tenth International Conference on Teaching Statistics (ICOTS)
Twelfth International Association for Statistical Education (IASE) Satellite Conference

Book Reviews

Whitaker, D. (2015). [Review of the book *The best writing on mathematics 2014*, by M. Pitici]. *The Key Reporter*. <https://www.keyreporter.org/book-reviews/2015/the-best-writing-on-mathematics-2014/>

Whitaker, D. (2015). [Review of the book *Bee time: Lessons from the hive*, by M. L. Winston]. *The Key Reporter*. <https://www.keyreporter.org/book-reviews/2015/bee-time-lessons-from-the-hive/>

Whitaker, D. (2014). [Review of the book *How not to be wrong: The power of mathematical thinking*, by J. Ellenberg]. *The Key Reporter*. <https://www.keyreporter.org/book-reviews/2014/how-not-to-be-wrong-the-power-of-mathematical-thinking/>

OTHER PROFESSIONAL POSITIONS

2019	Lecturer (20% part-time), University of Wisconsin-Stout, Menomonie, WI
2018	Secondary Mathematics edTPA Scorer, Pearson Education
2018	AP Statistics Reader, Educational Testing Service (ETS)
2012	Statistical Consultant, MCC Statistical Consulting, Gainesville, FL

PROFESSIONAL MEMBERSHIPS

American Statistical Association (ASA)
Association of Mathematics Teacher Educators (AMTE)
National Council of Teachers of Mathematics (NCTM)
Research Council on Mathematics Learning (RCML)
Statistics Society of Canada (SSC)