Ben O. Smith CV

bosmith@unomaha.edu https://bensresearch.com

Academic Positions

University of Nebraska Omaha (UNO)
– Harlan and Nancy Noddle Professorship (Fall 2021 -)
– Economics Department Chair (May 2020 -)
– University Distinguished Associate Professor (Fall 2021 - Spring 2024)
– Acting Economics Department Chair (March 2020)
– Associate Professor (2019 -)
– Assistant Professor (2014 - 2019)

Education

Ph.D. Economics – Washington State University (WSU) – 2014
– Field Course Specializations: *Industrial Organization, International Economics*
– Research Areas: *Regional, Economic Education, Industrial Organization, Behavioral, Computational*
– Chair: *Philip Wandschneider*

B.B.A. Finance – Washington State University (WSU) – 2009

Teaching Experience

University of Nebraska Omaha – In load

Graduate – ECON 8200 – Applied Micro Theory (1 time)

A reimagining of a graduate-level microeconomics theory course. The course teaches microeconomic theory but heavily uses applied problems and liberally uses Mathematica to solve and visualize more complex problems. The course is centered on a research project.

Spring 2025

Graduate – ECON 8330 – Data Analysis from Scratch (7 times)

Advanced econometrics and machine learning course where students learn to program all estimators from scratch. Additionally, this class introduces numerous non-parametric, machine learning and simulation techniques. This is the most advanced data science course in the College of Business.

Fall 2024, Fall 2023, Fall 2022, Fall 2021, Fall 2020, Fall 2019, Fall 2018

Graduate – ECON 4210/8216 – Industrial Organization (10 times)

A graduate level Industrial Organization course with a focus on behavioral economics and game theory.

Spring 2024, Spring 2023, Spring 2022, Spring 2021, Spring 2020, Spring 2019, Spring 2018, Spring 2017, Spring 2016, Spring 2015

Graduate – ECON 8210 – Managerial Economics (1 time)

A graduate level managerial course focused on applying economic theory to real world problems.

Fall 2014

MBA – BSAD 8150 – Essential Concepts (15 times)

As a core course in the MBA program, this class introduces the most important economic concepts for managers. These concepts are then reinforced with cases, news articles, and business tools, which are discussed in later courses (e.g. Porter's five forces, SWOT analysis).

Fall 2018, Spring 2018, Fall 2017 (2), Summer 2017, Spring 2017, Fall 2016 (2), Summer 2016, Spring 2016, Fall 2015 (2), Spring 2015, Fall 2014 (2)

Undergraduate – ECON 3310 – SQL, Databases, and Data Cleaning for Data Scientists (5 times)

Analytics requires data. This class teaches students to extract data from business systems using Structured Query Language (SQL), programmatically combine multiple data sets, and learn advanced programmatic data cleaning techniques, such as regular expression.

Spring 2024, Spring 2023, Spring 2022, Spring 2021, Spring 2020

Undergraduate – ECON 3200 – Economic Theory: Micro (6 times)

Intermediate level microeconomics theory course.

Spring 2020, Fall 2019, Spring 2019, Spring 2018, Spring 2017, Spring 2016

Undergraduate – ECON 2200 – Microeconomics (8 times)

Principles level microeconomics course.

Fall 2019, Spring 2019, Fall 2018, Fall 2017 (2), Fall 2016 (2), Fall 2015 (Thompson Learning Community)

Undergraduate – ECON 1200 – Introduction to the U.S. Economy (1 time)

Replaced an instructor starting in the third week of the semester. This is a principles level course covering parts of both micro- and macroeconomics. The class is intended for non-business majors.

Spring 2018

University of Nebraska Omaha – Out of load

Kiewit Data Literacy Program (2 times)

Part of the team that developed the curriculum and the lead instructor for "Module 4: Data Evaluation." This is part of a data literacy training contract with Kiewit.

Spring 2021 (2)

Executive Education – An Introduction to Data Analytics: Hands-On Experience to Improve Your Business (Cotaught, 1 time)

Custom introduction to data analytics for executives. The curriculum includes: database extraction techniques (SQL), visualization, regression analysis, and classification and regression trees.

Fall 2019

Executive Education – Economics Section of Union Pacific Business Development Program (Cotaught, 3 times)

A custom principles level course directed at managers without business degrees within Union Pacific.

Spring 2018, Spring 2017, Spring 2016

Executive MBA – Behavioral Economics of BSAD 8480 (2 times)

August 2016, August 2015

Graduate – Master's of Econ Math Primer (8 times)

Intense one day math course for students beginning the Master's of Economics program.

August 2022, August 2021, August 2020, August 2019, August 2018, August 2017, August 2016, August 2015

Data Literacy Micro Credential Program (4 times)

Developed and taught Introductory SQL and Power Query course as part of the micro credential program

November 2024, May 2024, December 2023, May 2023

Washington State University – In load

Undergraduate – ECONS 101 – Fundamentals of Microeconomics (2 times)

Principles level microeconomics course.

Spring 2014, Fall 2013

Middle and High School – Instructor and Course Developer, Decisions Through Data (3 times)

Four day introductory statistics class for middle and high school students. Part of both the "CougarQuest" and "Dare to Dream Academic Academy" programs.

Summer 2013 (3)

Non-Pedagogical Peer-Reviewed Articles

Title	**Changing It Up: Determining the Nash Equilibria for MLB pitchers**
Coauthor	Dustin White
Publisher	*American Behavioral Scientist* – 2024 https://doi.org/10.1177/00027642241235829
Description	We analyze the corpus of Major League Baseball (MLB) pitch data in order to determine whether or not MLB pitchers are able to reach the theorized mixed-strategy Nash equilibrium given the pitcher's skill in utilizing each type of pitch. Our data suggests that MLB pitchers are incredibly rational, and succeed in reaching the mixed-strategy Nash Equilibrium.
My Role	Concept and coauthor of the paper.
Title	**Beauty in the Eyes of the Beholder**
Coauthors	Kellie Lindsay, Dustin White
Publisher	*Journal of Economic Behavior and Organization* – January 2024 https://doi.org/10.1016/j.jebo.2023.10.035
Description	We investigate the unconscious influence of beauty on perceptions of commonly-sought employee traits. To do this, we develop a set of photos rated for "societal attractiveness" and use eye-tracking technology to measure participants' pupil sizes while they rate the same set of photos on perceived levels of competence, friendliness, and trustworthiness. We find that the same autonomic response to attractiveness occurs even when participants are asked to rate individuals on traits other than attractiveness. Each additional millimeter of pupil dilation results in about a seven percentage point increase in the perception of rated characteristics.
My Role	Empirical modeling and analysis. *Kellie Lindsay developed the idea, ran the experiment, and was the primary author of the paper.*
Title	**Assessing Proxies of Knowledge and Difficulty with Rubric-Based Instruments**
Coauthor	Jadrian Wooten
Publisher	*Southern Economic Journal* – October 2023 https://doi.org/10.1002/soej.12658
Description	Faculty and administrators routinely assess knowledge through papers, thesis presentations, or other demonstrations of knowledge assessed with rubric rows. This paper presents a statistical approach to estimating a proxy for student ability and rubric row difficulty. Moreover, we have developed software so that practitioners can more easily apply this method to their instruments. This approach can be used in researching education treatment effects, practitioners measuring learning outcomes in their own classrooms, or estimating knowledge for administrative assessment.
My Role	Conceived of, and solved, the empirical model, developed the estimation software, and was the primary author of the paper.
Title	**Path Dependence as a Path to Consumer Surplus and Loyalty**
Coauthors	Sherzod Akhundjanov, Max St. Brown
Publisher	*Review of Industrial Organization* – July 2023 https://doi.org/10.1007/s11151-023-09904-2
Description	In the technology and design industries, one product builds on another: A smart television enhances a smart phone. However, due to complementary features, the utility that is gained by owning both products from the same firm is greater than the sum of the two products' utility if purchased from separate firms. We show that the firms' complementary utility offset each other, which results in reduced prices.
My Role	Conceived of and solved the original model and coauthored the paper.

Title	**Distributional Properties of the Statistic of Online Student Evaluations: The mean does not mean what you think it means**
Coauthors	Dustin White, Jamie Wagner, Patricia Kuzyk, Alejandro Prera
Publisher	*Studies in Higher Education* – May 2023 https://doi.org/10.1080/03075079.2023.2211079
Description	This study examines the distribution of the statistic (mean or proportion) when SETs are administered online and in-person. Prior to COVID-19, online administration of SETs resulted in significantly more uncertainty than in-person administration as the in-person response rates were higher. Due to a decrease in in-person response rates in the post-COVID vaccine period, both methods result in significant levels of uncertainty of the true statistic value.
My Role	Conceived of the project, created the estimation procedure, and was the paper's principal author.

Title	**On Guessing: An Alternative Adjusted Positive Learning Estimator and Comparing Probability Misspecification with Monte Carlo Simulations**
Coauthor	Dustin White
Publisher	*Applied Psychological Measurement* – September 2021 https://doi.org/10.1177/01466216211013905
Description	This paper introduces a transformed measure of true positive learning that performs better when students' ability to guess is misspecified under some knowable conditions. The paper uses simulations to compare the accuracy of two estimation techniques under various violations of the assumptions of those techniques. Using recursive partitioning trees fitted to the simulation results, the paper provides the practitioner concrete guidance based on a set of yes/no questions.
My Role	Conceived of the project, created the estimators, programmed the simulations, and was the paper's principal author.

Title	**Let Them Tweet Cake: Estimating Public Dissent using Twitter**
Coauthor	Ethan Spangler
Publisher	*Defence and Peace Economics* – 2021 https://doi.org/10.1080/10242694.2020.1865042
Description	This paper establishes a new method of estimating public dissent using data from Twitter. We collect tweets containing specified words and phrases from citizens voicing dissatisfaction with their government. The collected tweets are processed using a regular expressions-based algorithm to estimate individual dissent; which is aggregated to an overall measure of public dissent. A comparative proof of concept for the countries of Kenya and Canada is provided in the paper.
My Role	Developed the underlying software for data extraction and helped author the paper.

Title	**How Often Does Active Learning Actually Occur? Perception vs. Reality**
Coauthor	Brandon Sheridan
Publisher	*American Economic Association Papers and Proceedings* – May 2020 https://doi.org/10.1257/pandp.20201053
Description	Using audio recordings of class sessions from two universities and a software tool that can identify different types of pedagogy, we show that instructors dramatically underestimate how often they lecture. This indicates that surveying faculty about their teaching practices only tells part of the story. More quantitative measures are necessary for an unbiased inventory of teaching methods in our discipline.
My Role	Coordinated the experiment at UNO. Coauthored the paper.

Title	**Improving Student Performance Through Loss Aversion**
Coauthors	Rebekah Shrader, Dustin White, Jadrian Wooten, John Dogbey, Steve Nath, Michael O'Hara, Nan Xu, Robert Rosenman
Publisher	*Scholarship of Teaching and Learning in Psychology* – September 2019 https://doi.org/10.1037/stl0000149
Description	This study shows that students perform three to four percentage points better when grades are presented in a loss frame. Students are endowed with all course points at the beginning of the semester, then points are deducted for each error throughout the semester.
My Role	Coordinated the experiment, performed all statistics, and was the primary author of the paper.

Title	**Adjusting for Guessing and Applying a Statistical Test to the Disaggregation of Value-Added Learning Scores**
Coauthor	Jamie Wagner
Publisher	*The Journal of Economic Education* – October 2018 https://doi.org/10.1080/00220485.2018.1500959
Description	This paper adjusts disaggregated value added learning types to account for guessing. Further, it provides a statistical test to distinguish true learning from 'white noise.' This method is now used by researchers, assessment committees, and instructors around the United States and Germany.
My Role	Conceived of the project, wrote the software, performed the statistics/modeling, and wrote the majority of the paper.

Title	**Estimating State-Industry Employment, with an Application to Industrial Localization**
Coauthor	Andrew Cassey
Publisher	*Applied Economics* – August 2018 https://doi.org/10.1080/00036846.2018.1486012
Description	In this paper, we develop a method of filling censored Census data using the hierarchical structure of the data. We use this method to fill all food industry data from 1963-2012. Using this approach, we show that the level and distribution of localization has not changed over time despite changes in transportation cost and the population distribution.
My Role	Wrote the software, performed the statistics and coauthored the paper.

Title	**Improved Grade Outcomes with an E-Mailed "Grade Nudge"**
Coauthors	Dustin White, Pat Kuzyk, and James Tierney
Publisher	*The Journal of Economic Education* – January 2018 https://doi.org/10.1080/00220485.2017.1397570
Description	Using a randomized trial, we show that providing grade information to students via email results in better student outcomes. Further, we provide software so that any instructor can implement the 'grade nudge' in their class. The software is available at https://bensresearch.com/nudge/.
My Role	Conceived of the project, wrote the software, did the analysis and was the primary author of the paper.
Wider Appeal	This research project has been featured on the blogs of *Richard Thaler* and *Tyler Cowen* and the *Department of Health and Human Services* has featured it in a report as an example of using behavioral economics to implement successful policy. Further, the article has been featured in *The Teaching Professor* newsletter, which has a readership of largely non-economists.

Title	**Short vs. Long: Cognitive Load, Retention and Changing Class Structures**
Coauthors	Brandon Sheridan and Erin Pleggenkuhle-Miles
Publisher	*Education Economics* – July 2017 https://doi.org/10.1080/09645292.2017.1305099
Description	Using a quasi-experimental design which controls for student ability, we show that as the length of a class increases student exam performance decreases. This is the first paper to show that long classes with path-dependent topic areas can result in worse outcomes for students in a classroom environment.
My Role	Conceived of the project, designed the experiment, performed the statistics and was the primary author of the paper.

Title	**Giving Away the Store: How the zero price constraint results in fewer add-on features**
Publisher	*Economics Bulletin* – June 2016 http://www.accessecon.com/Pubs/EB/2016/Volume36/EB-16-V36-I2-P98.pdf
Description	In this paper, I show that given the firm can't charge a price below free for the base good, fewer features will be sold as add-ons. This results in a benefit to the consumer. While the implications for the software industry are obvious, this model applies to other electronic intellectual property products with aftermarkets such as e-books, magazines, and newspapers.

Title	**A Practitioner's Guide to Testing Regional Industrial Localization**
Coauthor	Andrew Cassey
Publisher	*Washington State University Extension Bulletin* – November 2015 https://hdl.handle.net/2376/5630
Description	Allows for the application of our statistical testing method by anyone, even if they don't have programming experience. Special builds of the software are available for a variety of platforms.
My Role	Built the software, wrote the software instructions, and coauthored the paper.

Title	**Low-cost, Transportable Hydrogen Fueling Station for Early Market Adoption of Fuel Cell Electric Vehicles**
Coauthors	I.A. Richardson, J.T. Fisher, P.E. Frome, S. Guo, S. Chanda, M.S. McFeely, A.M. Miller, and J.W. Leachman
Publisher	*International Journal of Hydrogen Energy* – May 2015 https://doi.org/10.1016/j.ijhydene.2015.04.066
Description	We developed a dramatically less costly hydrogen fuel station.
My Role	Created the economic models and determined the economic feasibility of alternative designs. Wrote the economic sections of the paper and full design document.

Title	**Simulating Confidence for the Ellison-Glaeser Index**
Coauthor	Andrew Cassey
Publisher	*Journal of Urban Economics* – May 2014 https://doi.org/10.1016/j.jue.2014.02.005
Description	Provides a statistical interpretation of industry geographic agglomeration
My Role	Developed the software to run massive simulations as well as created software tools to calculate industry agglomeration, coauthored the paper.

Title	**Pundits – The Confidence Trick: Better Confident than Right?**
Coauthor	Jadrian Wooten
Publisher	*Significance* – August 2013 https://doi.org/10.1111/j.1740-9713.2013.00675.x
Description	A general audience article discussing our findings that the audience desires both accuracy and confidence from pundits.
My Role	Conceived of the project, built the software, performed the analysis and was the primary author of the paper.
Wider Appeal	Research project highlighted in over 30 news outlets including *ESPN*, *Forbes*, *MarketWatch*, *Inc.*, *NPR*, *Business Insider*, *The Telegraph*, and *Geek Wire*.

Pedagogical Peer-Reviewed Articles

Title	**Project Based Assessment: A web app to measure knowledge and difficulty with rubric-based instruments**
Publisher	*The Journal of Economic Education – Accepted*
Description	A short article describing the Project Based Assessment web app. This web app implements the statistical methods proposed in Smith & Wooten (2023) in a browser so it can be used by a wider audience of practitioners. The software and documentation is located at https://projectassessment.app.

Title	**Music 4 Econ**
Publisher	*Journal of Economics Teaching* – 2024
Coauthors	Wayne Geerling, J. Brian O'Roark, and Dirk Mateer https://doi.org/10.58311/jeconteach/5ba0387c9c9c4fe09cc1de6c83469f68bc556083
Description	This article is a short description of our website, https://music4econ.com. The website provides clips, explanations and *how to teach...* articles for use in an economics classroom.
My Role	Contributed to the *how to teach...* articles and designed the website.

Title	**Economics of Star Wars**
Publisher	*The Journal of Economic Education* – February 2022
Coauthors	Bailey Hackenberry and Matthew Rousu https://doi.org/10.1080/00220485.2022.2038747
Description	This article is a short description of our website, https://economicsofstarwars.com. The website provides clips, explanations and *how to teach...* articles for use in an economics classroom.
My Role	Contributed to the *how to teach...* articles and clips.

Title	**Assessment Disaggregation: A new tool to calculate learning types from nearly any exam platform, including online systems**
Publisher	*The Journal of Economic Education* – February 2022 https://doi.org/10.1080/00220485.2022.2038321
Description	A short article describing the Assessment Disaggregation software which can calculate learning values using unmodified exam/quiz files. This software produces learning estimates as described in Smith & White (2021), Smith & Wagner (2018), and Walstad & Wagner (2016) The software and documentation is located at https://www.assessmentdisaggregation.org.

Title	**Create Random Assignments: A cloud-based tool to help implement alternative teaching materials**
Coauthor	Jadrian Wooten
Publisher	*The Journal of Economic Education* – July 2018 https://doi.org/10.1080/00220485.2018.1464983
Description	A short article describing a web-based tool to create random homework assignments within Google Drive. The software (https://bensresearch.com/CRA) can deliver random assignments as Google Documents or PDFs over email.
My Role	Wrote the software and was the primary author of the instructions and article.

Title	**Lesson Plans for Teaching Economics with The Big Bang Theory**
Coauthors	Wayne Geerling, Dirk Mateer, James Tierney, and Jadrian Wooten
Publisher	*The Journal of Economics Teaching* – May 2018 https://doi.org/10.58311/jeconteach/115fc4b6915c205359c9ec4bbb9a30fb42ef0194
Description	A collection of formal K-12 lesson plans to teach introductory economics using the Big Bang Theory.
My Role	Wrote the lesson plans "Sheldon's Time is Too Valuable" and "Outsourcing a Date."

Title	**Multiplatform Software Tool to Disaggregate and Adjust Value-added Learning Scores**
Publisher	*The Journal of Economic Education* – April 2018 https://doi.org/10.1080/00220485.2018.1438863
Description	This article is a short description of the Assessment Disaggregation software which can be downloaded here: https://tazzben.github.io/WW/. This software converts raw (Scantron, Akindi or ZipGrade formatted) exam files into adjusted and unadjusted learning types as described by Smith & Wagner (2018) and Walstad & Wagner (2016). As calculating these scores by hand is time consuming, this software allows for the wide-scale adoption of these improved measurements of learning.

Title	**Bazinganomics: Economics Of The Big Bang Theory**
Coauthors	James Tierney, G. Dirk Mateer, Jadrian Wooten, and Wayne Geerling
Publisher	*The Journal of Economic Education* – April 2016 https://doi.org/10.1080/00220485.2016.1146099
Description	This article is a short description of our website, Bazinganomics.com. The website provides clips, explanations and *how to teach...* articles for use in an economics classroom.
My Role	Designed the website and contributed to the *how to teach...* articles.

Keynote or Special Presentations

Title	**Small Actions Can Make A Big Difference: Low Cost Interventions To Increase Your Students' Classroom Performance**
Organizer	*STEM TRAIL Center: Teaching Practices Workshop Series* – February 2021
Press	https://bit.ly/STEMTRAILMarch21

Title	**Providing Timely Grade Information to Your Students... and Your College**
Organizer	*Digital Learning Showcase: Keynote Address* – May 2019

Title	**Calculating the Adjusted-for-Guessing Disaggregated Value-Added Learning Scores: A Workshop to Improve Education Research, Instruction, and Assurance of Learning Assessment**
Organizer	*Academy of Economics and Finance: Teacher Training Program* – February 2019

Title	**What Drives Demand for Pundits?**
Organizer	*WSU Common Reading Lecture* – November 2013 – with Jadrian Wooten
Press	https://bit.ly/2T09Bff

Conference Presentations

Allied Social Science Associations

- The Localization of Processed Food Products Over Time (January 2016)

AEA Conference on Teaching and Research on Economic Education

- Are Students Sexist when Grading Each Other? Bias in Peer Grading and a Generalization to the Rubric-Based Estimator (May 2024)
- Assessing Proxies of Knowledge and Difficulty with Rubric-Based Instruments (June 2023)
- Calculating the Adjusted-for-Guessing Disaggregated Value-Added Learning Scores: A Workshop for Researchers, Instructors, and Departments (1 hour workshop, May 2019)
- Appreciating Randomness! Distributional Properties of Online Student Evaluations (May 2019)
- On Guessing: Comparing Estimates of the Guessing Parameter with Monte Carlo Simulations (May 2018)
- Short vs. Long: Cognitive Load, Retention and Changing Class Structures (June 2016)
- Short Semesters and Long Classes: Measuring the Impact on Studying and Learning Outcomes (May 2015)
- Teaching with the Popular Press: A More Entertaining and Economical Way to Teach Economics (May 2014)

Southern Economic Association

- Distributional Properties of the Statistic of Online Student Evaluations: The mean does not mean what you think it means (November 2019)
- On Guessing: An Alternative Adjusted Positive Learning Estimator and Comparing Probability Misspecification with Monte Carlo Simulations (November 2018)
- Estimating State-Industry Employment, with an Application to Industrial Localization (November 2017)
- Adjusting for Guessing and Applying a Statistical Test to the Disaggregation of Value-added Learning Scores (November 2017)
- Stronger Preferences and Lower Profit Margins? How Additional Utility Can Result in Lower Prices and Increased Consumer Surplus (November 2015)
- We Nudge and You Can Too! Informing Students of Grade Outcomes at the Moment of Decision (November 2015)
- Bazinganomics: Teaching Economics with The Big Bang Theory (November 2015)
- Using Online Tools for a Collaborative Classroom (November 2014)
- "I'll trade you some accuracy for that confidence:" The story of pundit accuracy and viewer preferences (November 2013)

Western Economic Association International

- Are Students Sexist when Grading Each Other? Bias in Peer Grading and a Generalization to the Rubric-Based Estimator (July 2024)

Journal of Economics Teaching Symposium on Economics Teaching

- Practical Ways to Accurately Measure Knowledge and Learning in Your Classroom (Workshop, August 2023)
- The End of the Semester is Too Late! Using technology to improve student performance throughout the semester across the academic unit (January 2020)

Annual Economics Teaching Conference

- Using Google Drive to Collaborate, Automate and Nudge (November 2014)
- Teaching with the Popular Press: A More Entertaining and Economical Way to Teach Economics (October 2013)

Academy of Economics and Finance

- On Guessing: Comparing Estimates of the Guessing Parameter with Monte Carlo Simulations (February 2018)
- We Nudge and You Can Too! Informing students of grade outcomes at the moment of decision (February 2016)
- Giving Away the Store: How the zero price constraint results in fewer add-on features (February 2016)
- Piracy, Awareness and Welfare in a Required Aftermarket (February 2014)

- Teaching with the Popular Press: A More Entertaining and Economical Way to Teach Economics (February 2014)
- "I'll trade you some accuracy for that confidence:" The story of pundit accuracy and viewer preferences (February 2013)

Topics in Education Symposium

- Beyond the Pre- and Post-Test Assessment Procedure (November 2017)
- Improved Classroom Outcomes with an E-Mailed 'Grade Nudge' (November 2017)

Innovation in Pedagogy and Technology Symposium

- We Nudge and You Can Too: Improving Outcomes with an Emailed Nudge (May 2018)

Digital Learning Showcase

- We Nudge and You Can Too: Improving Outcomes with an Emailed Nudge (May 2018)

Great Plains Business and Economics Conference

- Are Students Sexist when Grading Each Other? Bias in Peer Grading and a Generalization to the Rubric-Based Estimator (October 2024)
- Project Based Assessment: A web app to measure knowledge and difficulty with rubric-based instruments (October 2023)
- Assessing Proxies of Knowledge and Difficulty with Rubric-Based Instruments (October 2022)
- Estimating State-Industry Employment, with an Application to Industrial Localization (October 2017)

Teaching Software

Title	**Create Random Assignments**
Website	https://bensresearch.com/CRA/
Description	Google Drive based random homework assignment generator designed to leverage Drive's built in collaboration tools.

Title	**Nudge**
Website	https://bensresearch.com/nudge/
Description	Append grade outcome messages at the bottom of every assignment.

Title	**Assessment Disaggregation**
Website	https://www.assessmentdisaggregation.org/
Description	Software that disaggregates nearly any exam file format into value-added learning scores.

Title	**Project Based Assessment**
Website	https://projectassessment.app
Description	Software that helps you measure knowledge and rubric difficulty based on rubric-based instruments.

Awards and Grants

UNO College of Business Administration

- Dean's Citation for Service (Award, 2020)
- 'Superhero' Award (Award, 2018)
- MBA Professor of the Year (Award, 2018)
- MBA Professor of the Year (Award, 2017)

White, D., Smith B., *UNO CBA USSTRATCOM Advanced Analytics Lab*, NRI Collaboration Initiative (Grant, Co-PI, 2024, $99,100)

White, D., Smith B., *Wargaming Software Platform*, National Nuclear Security Administration (Grant, Co-PI, 2024, $232,725)

White, D., Smith, B., Meglich, P., *Personnel Database Analysis and Data Management Tool*, USSTRATCOM / J1 (Grant, Co-PI, 2020-2021, $97,423)

Bass, A., Pleggenkuhle-Miles, E., Smith, B., White, D., Perrigan, J., *Building Capacity in HSE - Focused Business Analysis*, NCITE (Annual Grants, 2020-2024, $159,752 to $294,056, depending on year)

Smith, B., Wagner, J., White, D., Feng, Z., *Improvements in Assessment of Principles in Mico- and Macroeconomics*, University of Nebraska – Omaha (Grant, PI, 2016, $2000)

Selected Professional Service

Journal of Economics Teaching

- Board of Directors (2016-)
- Website Designer & Production Manager (2016-)
- Advisory Board Member (2016-2019)

First Year Experience Evaluation Coordinators, Part of College Access and Success grant (2024-)

National Strategic Research Institute (NSRI) Fellow (2025-)

Promoting At-promise Student Success (PASS) UNO Fellow (2021-2024)

Advising

- Kellie Lindsay – Graduated 2024, M.A. Committee Chair (UNO)
- Fabrice Todo – Graduated 2022, M.A. Committee (UNO)
- Tiffany Bahm – Graduated 2021, M.A. Committee (UNO)
- Ethan Spangler – Graduated 2017, Ph.D. Committee Member (WSU)
- Dustin White – Graduated 2016, Ph.D. dissertation chapter coauthor (WSU)
- Jessica Perrigan – Graduated 2016, M.A. Committee Chair (UNO)
- Gregory Campbell – Completed 2015, USSTRATCOM Mentor (UNO)

Economics Assessment Manager

- Program-level assessment (2016-)
- General education assessment (2016-)

Committee Membership

- University Level (UNO)
  - Ad Hoc Faculty Senate committee for Evaluation of Teaching (Member: 2021-, Chair: Fall 2024-)
  - Responding to Early Alerts Initiative Task Force (2020-2021, *On hold*)
  - General Education Committee (Alternate: 2019-2021, Primary: 2021-)
  - STEM Leadership Team (2018-)
  - Academic Assessment Committee (2017-)
  - Chairs & Directors Professional Development Advisory Board (2021-2022)
  - Graduate Council (2019-2022)
  - Office of Research and Creative Activity Faculty Advisory Committee (2020-2021)
  - Academic Probation Prevention group (2020)
  - Office of Research and Creative Activity Review Committee (2020)
- College Level (CBA)

  - Executive Council (2020-)
  - Executive MBA Curriculum Planning (2022)
  - Executive MBA Task Force (Co-chair: 2021-2022)
  - Undergraduate Program Committee (2024-2025)
  - Technology and Educational Resources Council (Member: 2014-2024, Co-chair: 2016-2018)
  - Graduate Program Committee (2015-2019)
  - Evaluation of Teaching Task Force (2016-2018)
- Department Level (Economics)
  - Graduate Program Committee (2014-2022)
  - Economics Search Committee (2020-2021)
  - Data Analytics Instructor Search Committee (2020)
  - Data Analytics Search Committee (2015-2016)
  - Economics Search Committee (2014-2015)

Department Roles

- Undergraduate Analytics Advising (2022-)
- Undergraduate Economics Advising (2022-)
- Economics Website Manager (2018-)

Communities of Practice

- An Investigation of the Extended MBA Class Format (Facilitator – 2014-2015)
- Pre-Tenured Leadership Circle (2014-2015)

Custom Advising Early Warning Software System: Developer of an early warning system that extracts and sends grades to students throughout the semester of high risk courses within CBA and notifies academic advisors of low performing students. Software is available for use by others at: https://git.io/fjRtr (Last updated 2024).

Custom Tutoring Tracking System: Developer of Google Cloud Function that processes Calendly appointments and saves them in a Google Spreadsheet. This allows Google Data Studio reports linking data from multiple sources. Software can be downloaded at: https://git.io/JvTXk (Last updated 2022).

Automatic Deployment of Cartridges in Canvas: Developed a command line or Google Cloud Function to automatically deploy Canvas cartridges to an arbitrary specific set of courses. Software can be downloaded at: https://git.io/JRtj7 (2021).

Referee: AEA Papers and Proceedings, American Economist, Defence and Peace Economics, Economics Bulletin, Economic Inquiry, Economics Letters, Emerging Markets Finance and Trade, International Review of Economics Education, Journal of Economic Behavior & Organization, The Journal of Economic Education, Journal of Economics Teaching, Managerial Finance, The Scandinavian Journal of Economics, Southern Economic Journal, Studies in Higher Education, Urban Studies

Managerial Economics Booklet: 50 page booklet intended for students taking short-form MBA managerial classes (https://bit.ly/EconForManagers).

Instructional Documents: Understanding Test Items (https://bit.ly/UndTestItems), Interpreting Threshold Metrics (https://bit.ly/UTMUNO), Introduction to SQL for Data Scientists (https://bit.ly/IntrSQL), LaTeX Basics (https://bit.ly/InLaTeX), Git for LaTeX Users (https://bit.ly/IntrGit)

Created Open Source Projects: Expense.txt, Time.txt, Depreciate for Ledger / Ledger Scheduler / csvToLedger, Rally Point

Nebraska Economics and Business Association (NEBA): Board Member (2023-)

Computer Skills

Languages	AppleScript, C, C++, C#, Objective-C, HTML / CSS, Java, JavaScript, PHP, Python, SQL, VBScript, Others
Developed Apps for	iOS, macOS, Unix and Linux, Windows, AJAX / HTML 5 / Web, Office Add-ons, Google Apps Add-ons
Databases	MySQL, Microsoft SQL, SQLite
Statistical	Python (SciPy, Pandas, TensorFlow, etc.), R, Stata, Mathematica, GAUSS, SAS, MatLab

Product Development, Programming, Project Management, Business, Audio/Video Production, and Interactive Instructional Material Experience

Period	**2002 – 2015**
Employer	**WBP SYSTEMS**
Job Title	**Founder / Chief Software Architect**
Products	Heap CRM, Torch Project Management
Services	Business Software Consulting
Description	Design and code for-sale applications for small business (with global customer base). This includes creating all knowledge base articles/blog posts (hundreds), instructional videos and marketing material. Additionally, the products integrate with over twenty 3rd party applications, provide four API hooks and are industry leaders in language analysis, search technology and HTML5 offline mobile experiences.

Statistical Research Experience

Period	**2010 – 2013**
Employer	**WSU – Graduate School, WSU – Institutional Research**
Job Title	**Research Assistant**
Description	Created reports and designed automation software to eliminate reoccurring tasks previously done by hand. Prepared reports for other departments in the university and answered research questions such as the effectiveness of particular departments.