

✉ BOSMITH@UNOMAHA.EDU 🌐 [HTTPS://BENSRESEARCH.COM](https://bensresearch.com)

ACADEMIC POSITIONS

University of Nebraska Omaha (UNO)

- University Distinguished Associate Professor (Fall 2021 -)
- Harlan and Nancy Noddle Professorship (Fall 2021 -)
- Economics Department Chair (May 2020 -)
- 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 8330 – Data Analysis from Scratch (5 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 2022, Fall 2021, Fall 2020, Fall 2019, Fall 2018

Graduate – ECON 4210/8216 – Industrial Organization (8 times)

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

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 (3 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 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 (7 times)

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

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

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 | On Guessing: An Alternative Adjusted Positive Learning Estimator and Comparing Probability Misspecification with Monte Carlo Simulations |
| COAUTHOR | Dustin White |
| PUBLISHER | <i>Applied Psychological Measurement</i> – 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 | <i>Defence and Peace Economics</i> – 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 | <i>American Economic Association Papers and Proceedings</i> – 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 | <i>Scholarship of Teaching and Learning in Psychology</i> – 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 | <i>The Journal of Economic Education</i> – 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. |

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| TITLE | Estimating State-Industry Employment, with an Application to Industrial Localization |
| COAUTHOR | Andrew Cassey |
| PUBLISHER | <i>Applied Economics</i> – 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 | <i>The Journal of Economic Education</i> – 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 <i>Richard Thaler</i> and <i>Tyler Cowen</i> and the <i>Department of Health and Human Services</i> has featured it in a report as an example of using behavioral economics to implement successful policy. Further, the article has been featured in <i>The Teaching Professor</i> 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 | <i>Education Economics</i> – July 2017 http://dx.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 | <i>Economics Bulletin</i> – 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 | <i>Washington State University Extension Bulletin</i> – 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 | <i>International Journal of Hydrogen Energy</i> – May 2015 http://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. |

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| TITLE | Simulating Confidence for the Ellison-Glaeser Index |
| COAUTHOR | Andrew Cassey |
| PUBLISHER | <i>Journal of Urban Economics</i> – May 2014 http://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 | <i>Significance</i> – August 2013 http://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 <i>ESPN</i> , <i>Forbes</i> , <i>MarketWatch</i> , <i>Inc.</i> , <i>NPR</i> , <i>Business Insider</i> , <i>The Telegraph</i> , and <i>Geek Wire</i> . |

 PEDAGOGICAL PEER-REVIEWED ARTICLES

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|-------------|---|
| TITLE | Music 4 Econ |
| PUBLISHER | <i>Journal of Economics Teaching</i> – Accepted |
| COAUTHOR | Wayne Geerling, J. Brian O’Roark, and Dirk Mateer |
| DESCRIPTION | This article is a short description of our website, https://music4econ.com . The website provides clips, explanations and <i>how to teach...</i> articles for use in an economics classroom. |
| MY ROLE | Contributed to the <i>how to teach...</i> articles and designed the website. |
| TITLE | Economics of Star Wars |
| PUBLISHER | <i>The Journal of Economic Education</i> – February 2022 |
| COAUTHOR | 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 <i>how to teach...</i> articles for use in an economics classroom. |
| MY ROLE | Contributed to the <i>how to teach...</i> articles and clips. |
| TITLE | Assessment Disaggregation: A new tool to calculate learning types from nearly any exam platform, including online systems |
| PUBLISHER | <i>The Journal of Economic Education</i> – 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 | <i>The Journal of Economic Education</i> – 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 | <i>The Journal of Economics Teaching</i> – May 2018 http://downloads.journalofeconomicsteaching.org/3/1/1-4.pdf |
| 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.” |

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| TITLE | Multiplatform Software Tool to Disaggregate and Adjust Value-added Learning Scores |
| PUBLISHER | <i>The Journal of Economic Education</i> – 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 | <i>The Journal of Economic Education</i> – April 2016 http://dx.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 <i>how to teach...</i> articles for use in an economics classroom. |
| MY ROLE | Designed the website and contributed to the <i>how to teach...</i> articles. |

KEYNOTE OR SPECIAL PRESENTATIONS

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|-----------|---|
| TITLE | Small Actions Can Make A Big Difference: Low Cost Interventions To Increase Your Students' Classroom Performance |
| ORGANIZER | <i>STEM TRAIL Center: Teaching Practices Workshop Series</i> – February 2021 |
| PRESS | https://bit.ly/STEMTRAILMarch21 |
| TITLE | Providing Timely Grade Information to Your Students... and Your College |
| ORGANIZER | <i>Digital Learning Showcase: Keynote Address</i> – 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 | <i>Academy of Economics and Finance: Teacher Training Program</i> – February 2019 |
| TITLE | What Drives Demand for Pundits? |
| ORGANIZER | <i>WSU Common Reading Lecture</i> – 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

- 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)

Journal of Economics Teaching Symposium on Economics Teaching

- 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

- Estimating State-Industry Employment, with an Application to Industrial Localization (October 2017)

TEACHING SOFTWARE

| | |
|-------------|--|
| TITLE | Create Random Assignments |
| WEBSITE | https://bensresearch.com/CRA/ (link to Chrome Store on site) |
| DESCRIPTION | Google Drive based random homework assignment generator designed to leverage Drive's built in collaboration tools. |

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|-------------|--|
| TITLE | Create Group Projects |
| WEBSITE | https://bensresearch.com/CGP/ (link to Chrome Store on site) |
| DESCRIPTION | Automatically generate Google Drive based collaborative work spaces for group projects. |
| TITLE | Nudge |
| WEBSITE | https://bensresearch.com/nudge/ (link to Chrome Store on site) |
| 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. |

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., 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 (Grant, 2020-, \$294,056)

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)

Bazinganomics Website Designer (2015-)

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

Advising

- Fabrice Todo – *in progress*, M.A. Committee (UNO)
- Miles Russell – *in progress*, 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)
 - Chairs & Directors Professional Development Advisory Board (2021-)
 - Teaching Evaluation Review Committee (2021-)
 - Responding to Early Alerts Initiative Task Force (2020-)
 - General Education Committee (Alternate: 2019-2021, Primary: 2021-)
 - STEM TRAIL Advisory Council (2020-)
 - STEM Leadership Team (2018-)
 - Academic Assessment Committee (2017-)
 - 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 Task Force (Co-chair: 2021-2022)
 - Technology and Educational Resources Council (Member: 2014-, Co-chair: 2016-2018)
 - Graduate Program Committee (2015-2019)
 - Evaluation of Teaching Task Force (2016-2018)
- Department Level (Economics)
 - Graduate Program Committee (2014-)
 - Economics Search Committee (2020-2021)
 - Data Analytics Instructor Search Committee (2020)
 - Data Analytics Search Committee (2015-2016)
 - Economics Search Committee (2014-2015)

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> (2019).

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> (2019).

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, Economics Bulletin, Economic Inquiry, Emerging Markets Finance and Trade, International Review of Economics Education, Journal of Economic Behavior & Organization, The Journal of Economic Education, Journal of Economics Teaching, The Scandinavian Journal of Economics, 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

COMPUTER SKILLS

LANGUAGES AppleScript, C, C++, C#, Objective-C, HTML / CSS, Java, JavaScript, PHP, Python, SQL, VBScript, Others
 DEVELOPED iOS, macOS, Unix and Linux, Windows, AJAX / HTML 5 / Web, Office Add-ons, Google
 APPS FOR 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

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|-------------|--|
| 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

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| 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. |