Joseph Navelski

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Education

Doctorate of Philosophy in Economics   *August 2018 - Present*

WASHINGTON STATE UNIVERSITY - SCHOOL OF ECONOMIC SCIENCES   *Pullman, WA*

   Research Interests: Theoretical and Empirical Industrial Organization, Structural Modeling, NLP and Bayesian Analysis - *3.84 GPA*
   Passed Core Examinations July 2019
   Received Distinction in Microeconomics and Macroeconomics Core Examination

Masters of Science in Statistics   *August 2018 - Present*

WASHINGTON STATE UNIVERSITY - DEPARTMENT OF MATHEMATICS AND STATISTICS   *Pullman, WA*

   Emphasis in Applied Statistical Methods, Econometrics and Time Series- *4.00 GPA*

Masters of Science in Agricultural and Resource Economics   *August 2016 - May 2018*

UNIVERSITY OF ARIZONA - COLLEGE OF AGRICULTURE AND LIFE SCIENCES   *Tucson, AZ*

   Emphasis in Applied Econometrics and Data Analytics - *3.64 GPA*

   Thesis Title: "Does Open Government Pay? The Impacts of Open Government on Trust in Public Institutions"
   Thesis Advisor: Dr. Tauhidur Rahman

Bachelor of Arts in Sociology with a Minor in Business Administration   *Auguat 2007 - May 2011*

UNIVERSITY OF NEW HAMPSHIRE - COLLEGE OF LIBERAL ARTS   *Durham, NH*

   Presentation Title: "The Economic Effects of the Growth of the Digital File Sharing Industry"

Publications and Working Papers

Monitoring Reliability under Competing Risks Using Field Data   *Submitted Paper*

                                                                           w/ Jave Pascual

Many modern products fail due to one of multiple causes called competing risks. In this article, we propose variable features for monitoring product failure by control charts under competing risks. Failure reports arrive one at a time from a finite population of units. Features are derived from both the reports and the assumed competing-risk statistical model. To assess the efficacy of different feature subsets in detecting shifts in the failure-time process, we consider control charts based on random forests and compare the average run length performances under different shift scenarios. We demonstrate the control charts with both simulated data sets and actual field data set from a consulting problem. We also propose graphical fault-diagnosis methods for identifying assignable causes of alarm signals. Control charts based on the proposed features will provide valuable information to manufacturers in planning for warranty, part-replacement, or repair.

Analyzing Consumer Acceptance and Social Interactions in Social Media:

An Application in Genome Editing in Domestic Livestock   *Working Paper*

                                                                     USDA NIFA Grant under Jill McCluskey

In this paper, I use an array of machine learning methods to estimate consumer sentiment through text analysis using Tweets about GMO's in domestic livestock, develop a Bayesian spatial following model that estimates the relative ideology of Twitter users based on who they follow, and use these parameter estimates in a theoretical economic model to determine how consumer sentiment and social interaction effect equilibrium in an industrial organization model. Results show that the sentiment about GMO's is mostly negative, ideaology about GMO's is split for influencers and their followers, and that these results support a market equilibrium where an increase in more GMO accounts will drive prices for these good further apart by increasing Non-GMO prices and decreasing GMO good prices.

Multiple Signals in a Corporate Socially Responsible Equilibrium   *Working Paper*

                                                                           w/ Felix Munoz-Garcia

In this paper, we develop a Perfect Bayesian Nash Equilibrium (PBE) that gives a seperating equilibrium for a firm to optimally decide when to invest into a clean technology, that is seen to be socially responsible, based on a theoretical signaling structure. The signaling structure represents an exogenous media source, and signals are observed with some proability conditional on the firms choice.

Penalizing Bias in Media Polarization Estimation:

An Empirical Analysis Between Fox News and CNN
Working Paper

w/ M. Mahoney and K. Ondongo

Over the last twenty years, the political views of many Americans have diverged into two distinct camps. That political polarization has reached new heights is unquestionable, yet it is unclear to what extent mass media has contributed to this ideological schism. In this paper we adopt the approach of Gentzkow, Shapiro and Taddy (2019) to quantify polarization across America's two most prominent news outlets, FOX News and CNN. The constructed polarization index demonstrates that media polarization has indeed risen over time, with the largest yearly increase in 2016. We then apply our index to assess the causal impact of media polarization on political polarization.

Research, Teaching and Outreach Experience

Graduate Research Assistant
January 2021 – Present

WASHINGTON STATE UNIVERSITY, SCHOOL OF ECONOMIC SCIENCES
Pullman, WA

USDA NIFA Grant under Dr. Jill McCluskey - "Social Interaction and Consumer Acceptance of Genome Editing in Domestic Livestock"

Graduate Lead Instructor
August 2019 – December 2020

WASHINGTON STATE UNIVERSITY, SCHOOL OF ECONOMIC SCIENCES
Pullman, WA

Courses:
EconS 101 - Fundamentals of Microeconomics (*Fall 2020*)
EconS 305 - Intermediate Microeconomics (*Summer 2020*)
EconS 424 - Strategy and Game Theory (*Spring 2020*)
EconS 327 - International Trade and Finance Economics (*Online - Fall 2019*)

Graduate Teaching Assistant
August 2018 – May 2019

WASHINGTON STATE UNIVERSITY, SCHOOL OF ECONOMIC SCIENCES
Pullman, WA

Courses:
EconS 102 - Fundamentals of Macroeconomics

Graduate Teaching Assistant
August 2017 – May 2018

UNIVERSITY OF ARIZONA, DEPARTMENT OF AGRICULTURAL AND RESOURCE ECONOMICS
Tucson, AZ

Courses:
AREC 360 - Poverty and Development of Nations
AREC 315 - Agribusiness Economics and Management
AREC 304 - Intermediate Production and Consumption Economics

- Collaborate with supervisor(s) to administer and manage undergraduate courses.
- Teach and advise 100+ undergraduate students (per semester) how to apply intermediate economic principles and concepts.
- Hold office hours, grade all submitted course work, and proctor exams.

Graduate Outreach Assistant – University of Arizona Peace Corps Coverdell Fellow
August 2016 – May 2018

UNIVERSITY OF ARIZONA, GRADUATE COLLEGE
Tucson, AZ

- Support Coordinator for the Community and School Garden Program (CSGP).
- Assist in the planning, design, and management of all CSGP projects in the Tucson Unified School District (TUSD).
- Teach students STEM based skills to sustainably farm, maintain an aquaponic ecosystem, and develop a successful agribusiness.

Professional Experience

GS-7 Research Economist – Student Intern
Summer 2018

U.S. DEPARTMENT OF AGRICULTURE, ECONOMIC RESEARCH SERVICES (ERS)
Washington, DC

- Quantified the effect of the improved missing data imputation model by calculating summary statistics, confidence intervals, and other household well-being metrics.
- Used STATA to automate all statistical and economic analyses.
- Presented analysis to ERS Farm Economy Branch.

GS-7 Research Economist – Student Intern

U.S. DEPARTMENT OF AGRICULTURE, ECONOMIC RESEARCH SERVICES (ERS)

Summer 2017

Washington, DC

- Built data sets with SAS by calculating financial ratios, and classified financial ratios with descriptive statistic variables.
- Used Github and SQL Server to manage data sets with over 100,000 observations and 2,000 different variables.
- Created data visualization with Tableau, and debugged data visualization to optimize usability for ERS stakeholders.
- Data product methodology was fully documented, repeatable, and updateable, and will be published as a Farm Income Economic Report.

GS-7 Passport Specialist

U.S. DEPARTMENT OF STATE, CONSULAR AFFAIRS

April 2016 – March 2017

Tucson, AZ and Portsmouth, NH

- Received, examined, and adjudicated applications for the issuance, amendment, and replacement of all U.S. Passports.
- Examined applicant's citizenship evidence to determine authenticity in accordance to federal regulations and laws.

Project Manager, Engineering Technician, and Lead Scuba Diver

BLUE WATER CONCEPTS LLC.

November 2014 – April 2016

Eliot, ME

- Managed hydroelectric turbine prototype project by ensuring production was on schedule and cost efficient.
- Responsibilities included financial accounting, client relations, test data management and prototype testing.
- Assisted with all R&D, hands-on machining, fabrication, assembly of prototype, and installed all deep sea testing equipment.

Composter / Advisor

MR. FOX COMPOSTING

November 2015 – April 2016

Portsmouth, NH

- Advised business and economic development team for a pioneering organic waste business.
- Processed and delivered organic compost collected from residences and businesses in the greater seacoast area.

Mechanic / Marketing Assistant

PORT CITY MOPEDS LLC.

September 2014 – Nov. 2014

Portsmouth, NH

- Performed diagnostics, estimated costs and repair of vintage and newer model mopeds.
- Designed, planned and hosted the First Welcome East Community Motorcycle Show.
- Show included 80 registered motorcyclists and 200 voting spectators.

U.S. Peace Corps Sustainable Agriculture and Food Security Specialist

U.S. PEACE CORPS NICARAGUA

May 2012 - August 2014

Laguna de las Perlas, Nicaragua

- Completed intense three-month training program focused on Spanish, Nicaraguan cross-cultural adaptation, community development, education techniques, and technical themes related to agricultural extension in Latin America.
- Implemented and managed a $6,800 USAID Feed the Future coconut processing project, and a $1,000 USAID Energy Policy and Conservation Act improved stove project.
- Facilitated projects between a local farming cooperative and six different governmental and private international aid organizations.
- All activities were conducted in Spanish and Creole English.

- Description of Peace Corps Service available upon request -

Extracurricular Activities

Board Member

GRADUATE STUDENT BROWN BAG SEMINAR SERIES

August 2021 - Present

Pullman, WA

Active Mentor

ASSOCIATION FOR WOMEN IN MATHEMATICS

August 2021 - Present

Pullman, WA

Active Member

TRI-ALPHA NATIONAL HONOR SOCIETY FOR FIRST-GENERATION COLLEGE STUDENTS

January 2021 - Present

Pullman, WA

Graduate Student Representative

U.A. COLLEGE OF AGRICULTURE AND LIFE SCIENCES (CALS) CURRICULUM REVIEW COMMITTEE

August 2017 - May 2018

Tucson, AZ

- Work with CALS Department Heads and Faculty to review proposed CALS curricula.
- Read, review and comment on all proposed syllabi and course documents in preparation for all committe meetings

President   *January 2017 - May 2018*

U.A. Agricultural and Resource Economics Club   *Tucson, AZ*
- Coordinate with AREC faculty, staff, and alumni to host seminars, field trips, and alumni events
- Manage grant writing team to raise funds for events

Vice President   *January 2017 - May 2018*

U.A. Peace Corps Association Fellows Club   *Tucson, AZ*
- Work with Fellows Club Board to plan and implement social and community outreach events.
- Honorable Asker to help fundraise for the 2017 and 2018 University of Arizona Peace Corps Fair.
- Promote Peace Corps and it's mission to undergraduate classes through panelist discussions and formal presentations.

Team Member   *January 2017 - May 2018*

Agrivoltaics Project Grant Writing Team   *Tucson, AZ*
- Work with Faculty from the School of Natural Resources and CALS to design and write an NSF-NFEWS grant.

Business Proposal Reviewer   *April 2017 & 2018*

Future Farmers of America (FFA)   *Tucson, AZ*
- Work with AREC Faculty to review and judge business proposals from local FFA Chapters.

Awards & Certifications

Awards

2021	**Excellence in Teaching Award**, School of Economic Sciences	*Pullman, WA*
2018	**Meritorious Graduate Teaching Assistant from AREC**, College of Agriculture and Life Sciences	*Tucson, AZ*
2018	**Jack Vaughn Award for Outstanding Leadership - Nomination**, Peace Corps Coverdell Fellows	*Tucson, AZ*
2018	**Scholarship**, Rodgers Graduate Assistantship	*Tucson, AZ*
2017	**Scholarship**, E. Ray Cowden Scholarship	*Tucson, AZ*
2016	**Scholarship**, Eric Monke Memorial Scholarship	*Tucson, AZ*

Certifications

Present	**Spanish Advanced-Low Certification**, American Council of Teaching Foreign Languages	*Tucson, AZ*
Present	**Certified**, Open Water Scuba Diving Certified - PADI Diving	*Panama*
9/5/17	**Certified**, Teaching Assistant Policy Training (TATO)	*Tucson, AZ*
9/29/17	**Granted**, USDA Security Clearance	*Washington, DC*
09/08/16	**Granted - Revaluation**, DOS Secret Security Clearance	*Washington, DC*
2/22/16	**Granted**, DOS Secret Security Clearance	*Washington, DC*

Programing Skills and Languages

Programming Languages	R, Python, Markdown, SQL, Git, LaTeX, SAS, Stata, SPSS, Microsoft SQL Server and MatLab
Data Visualization	Tableau
Languages	Fluent in reading, writing and speaking English, Spanish and conversational in Creole English