

Jason Boim
6946 Ellingham Cir
Alexandria, VA 22315 US
Mobile: 5163170188
Email: jboim1@gmail.com

Availability:

Job Type: Permanent, Telework

Work Schedule: Full-Time

Desired locations:

United States - VA

United States - MD

United States - DC - Washington

Work Experience:

National Institute of Food and Agriculture 11/2012 - Present

800 9th St. SW

Washington, DC 20024 United States

Salary: 91,740.00 USD Bi-weekly

Hours per week: 40

Series: 0110 **Pay Plan:** GS **Grade:** 12

Social Science Specialist (This is a federal job)

Supervisor: Brad Rein (202-445-5442)

Okay to contact this Supervisor: Yes

STATISTICS:

- CO-AUTHORED white paper assessing social science at NIFA, looking at 24 programs over 3 years and matching 27,000 observations across 5 databases, using R to analyze the data. Found that social science being solicited matched awards and expertise of panelists, but total amount of social science conducted was less than anticipated and highly skewed, being carried by a few programs. White paper resulted in mandate from director to include social science components in all program RFA's. Received a spot award for this work.

- DESIGNED PILOT OF MECHANISM DESIGN MODEL where applicants serve as reviewers. Advised on development of VBA program for implementing model, including matching and ranking algorithm. DEVELOPED SIMULATION IN PYTHON to test for bias, accuracy, and variance of model. CREATED NATURAL LANGUAGE PROCESSING PROGRAM in Jupyter Notebook to test for homogeneity in groups of proposals, to be used to identify rule-of-thumb cutoffs. Model was piloted by NSF in 2015 & by NIFA in 2016, processing nearly 500 applications. This work was done as part of a team of 4 and in collaboration with partners at NSF.

- DESIGNED TEST of impact of panelists change in ranking on final rating. Found that changes

had no significant impact on funding determination and that such a change occurred extremely rarely. Results were used to help justify mechanism design pilot.

- Developed prioritization matrix with 5 criteria and 4 weighted levels for use by customer advisory board. Matrix was designed to provide sufficient spacing between proposals while maintaining pre-determined preferences.

LEADERSHIP

- Spearheaded effort to bring NIFA collection policy on demographic data into compliance with federal regulations and meet requirements of panel life cycle. Identified discrepancy between NIFA policy and federal regulations. Documented issues with key internal stakeholders, developed long and short-term action plans, briefed senior leadership, and lead implementation effort.
- ORGANIZED LGBTQ day of celebration, working in team of 4. Identified and recruited lead speaker for the event. Filled in as emcee at last minute when original emcee was unavailable due to an emergency.
- SERVED AS CO-CHAIR ON CUSTOMER ADVISORY BOARD for 2-year term and 4 years as a member. PROVIDED RECOMMENDATIONS AND OVERSIGHT to OIT on data and software related challenges, such as changes to existing software and design of new relational databases. Resolution of these issues often led to large savings on staff time and improvements in data quality. Met with OIT bi-weekly to discuss status of work and set priorities. Briefed and obtained buy-in from leadership monthly. DEVELOPED AND PRESENTED TRAINING MATERIALS and lead communications to the agency on these issues. Board consisted of 20 members with representation across the agency.
- MANAGED TEAM OF 5 internal staff and 80 panelists annually for processing 400 grants in 5 Ag Econ and Data Science programs within NIFA's flagship competitive program, totaling \$120M over 6 years. CONDUCTED ANNUAL OUTREACH to project directors, stakeholders, and prospective grantees via webinars, conferences, and list-servs to inform applicants on grant related information.
- LEAD EFFORT to increase number of statisticians on NIFA panels. Discussed issue internally with Program Staff & Leadership, obtaining buy-in & commitments. Built relationship with American Statistical Association to assist with finding statisticians. PRESENTED ON PANEL AT JSM, a national conference on statistics with over 6,500 attendees, describing funding opportunities for statisticians.
- SERVED ON DATA GOVERNENCE GROUP for 3 years, resolving systematic data related issues with NIFA systems. SPEARHEADED effort to create a system identifying & correcting incorrect names in database. Found that 81% of funds to schools could not be verified as going to the correct institution, prompting change in policy. System eventually grew to include

organizational data and was connected to NIFA's reporting system, allowing for standardization of reporting and efficiency gains. PRESENTED FLASH TALK on Data-Driven Decision Making during NIFA Science Week. Voted as most important to be implemented in the strategic plan out of the ideas presented.

- LED AND ORGANIZED bi-weekly Program Specialist meetings for two years. Group was created to facilitate sharing of information amongst colleagues. Spawned the creation of repository of reference information & presentations that became the gold standard for training new Program Specialists.
- DEVELOPED AND PRESENTED training for virtual panels to more than 100 employees in response to virtual panels becoming mandatory. Training was well received with multiple staff who were previously against the transition informing me they found the process seamless and easier than expected.

(Experience related to SURVEYS is located in additional information.)

Department of Defense, Education Activity, 05/2012 - 09/2012

Research & Evaluation

4800 Mark Center Drive

Alexandria, VA 22311 United States

Salary: 51,630.00 USD Bi-weekly

Hours per week: 40

Series: 1702 **Pay Plan:** GS **Grade:** 9

This a time-limited appointment or temporary promotion

Education Technician (This is a federal job)

Supervisor: Sandra Embler (703-588-3175)

Okay to contact this Supervisor: Yes

- OVERSAW DEVELOPMENT OF NEEDINESS INDEX, similar to No-Child Left Behind (NCLB) models, for DoDEA's 195 schools. Conducted literature review of existing NCLB models. Found that models varied greatly in design and purpose but that the Washington model, which incorporated value added and status components while controlling for demographics, was the most closely aligned with the goals of DoDEA. Created variant of the Washington model, modifying variables to be DoDEA specific. Utilized a WLS regression to obtain expected vs actual results from students, controlling for demographic variables. Model expected to be used for identifying schools most in need of intervention, as well as awarding exceptional schools.

- DESIGNED AUTOMATED FUNCTION in R to run analysis for neediness index, including cleaning common errors found across 8 DoDEA databases containing roughly 88,000 students without common unique identifiers, and merging the relevant information into a single file.

- EDITED BUSINESS CASE ANALYSIS of a two-million dollar purchase of equipment and services, comparing three competing offers. CONDUCTED LIFE-CYCLE ANALYSIS of the offers

for the analysis.

American University

4400 Massachusetts Avenue NW

Kreeger - 127

Washington DC, DC 20016 United States

06/2011 - 08/2012

Hours per week: 6

Research Assistant

Supervisor: Dr. Mary Hansen (202-885-3793)

Okay to contact this Supervisor: Contact me first

- UPDATED AND CREATED CODE IN SAS to clean raw census data from AFCARS, a data set of all adoption and foster care in the U.S. since 1995, roughly 10,000,000 observations. Generated histograms and summary statistics for variables of interest. Ran logistic regressions to determine if data was missing at random. Data was used to run panel analysis on subsidies received by state and year, testing effects of the recession and stimulus.

American University

4400 Massachusetts Ave NW

Washington DC, DC 20016 United States

09/2011 - 08/2012

Hours per week: 3

Consultant

Supervisor: Jun Lu (202-885-3042)

Okay to contact this Supervisor: Contact me first

- ADVISED ON STATISTICAL QUESTIONS for students, professors, and clients during weekly walk-in hours. Performed analysis for additional fee. Examples include prepping students for PhD hearings; providing feedback and guidance on design of survey and analysis of upcoming studies; and explaining statistical concepts such as factorial analysis & relationship between ANOVA and multiple regression.
- CO-AUTHORED VCOT JOURNAL PUBLISHED veterinarian study of surgeries. PROVIDED ANALYSIS using OLS, ordinal, and logistic regressions in R. Found that performing bilateral surgeries significantly increased risk of complications.

American University

01/2012 - 05/2012

4400 Massachusetts Ave NW, Washington, DC **Hours per week:** 6

20016

Washington DC, DC 20016 United States

Math & Statistics Tutor

- Tutored Calculus 1-3, Introduction to Statistics, and Intermediate Statistics to walk in students.

Washington, DC Economic Partnership
1495 F Street NW
Washington, DC 20024 United States

01/2011 - 05/2011
Hours per week: 24

Intern

- Authored report on gentrification and food deserts in DC, assessing their effects on surrounding communities in a lit-review. Provided overview of investment in DC and its impacts since the civil war. Suggested recommended approaches that could be taken alongside such investments to help minimize the burden on gentrifying communities.
- Analyzed demographic data from ESRI, Census Bureau, and Bureau of Labor Statistics to create 15 company profiles looking to expand into DC.
- Updated and managed 12 databases, consisting of 5,000 contacts, retail sites, and real estate transactions over the past 5 years.

Education:

American University Washington DC, DC United States

Master's Degree 12/2012

GPA: 3.83 of a maximum 4.0

Major: Statistics

Relevant Coursework, Licenses and Certifications:

Survey Sampling

- DESIGNED SURVEY using Google Docs to assess what information people use when deciding to read a non-vocational book. Conducted a PPS sample of over 2,000 classes. Contacted 19 instructors with request to forward survey instruction to their class, total of 482 students. Found that overwhelming majority preferred descriptions or summaries of books from third parties as most helpful.

Design of Experiments

- Tested for price differences in fruits by supermarket and state using factorial analysis in SPSS. Collected data through supplier websites and phone calls. Found no interaction effect between store and state and no significant difference in price between supermarkets.

American University Washington DC, DC United States

Bachelor's Degree 05/2011

Major: Mathematical Statistics; Second Major: Economics

Relevant Coursework, Licenses and Certifications:

Growing Artificial Societies

- PROGRAMMED SIMULATION of dating and first marriage in NetLogo based on matching theory and proximity, using Subversion to coordinate amongst team members. Tested how changes in population density and gender rate affect number of partners, happiness, and time before first marriage using multiple regression in R. Found multiple variables were significant and changed based on the model parameterization.

Microeconomics of Economic Development

- Designed 8 policy briefs in responses to case studies of development scenarios such as famines, market failures, and growth opportunities.

Job Related Training:

1. Making Sense of Noisy Data with Measurement Error or/and Missing Observations; July 2019
2. Big Data, Data Science and Deep Learning for Statisticians; July 2019
3. Leadership Institute Cohort; October 2018-August 2019
 - Year-long course with multiple workshops focusing on building leadership competencies.
4. Advanced R; August 2018
 - Writing functions in R & developing R packages for distribution. Course focused on Tidyverse.
5. Preparing Statisticians to be Data Scientists; August 2017
 - Discussed how to bridge the gap from statistician to data scientist. Provided hands on experience with cloud-based computing and various data science tools such as Hadoop, Spark, and R-Shiny.
6. Preparing Statisticians for Leadership; August 2016
7. Effective Presentations for Statisticians; August 2016

Language Skills:

Language	Spoken	Written	Read
English	Advanced	Advanced	Advanced

Affiliations:

American Statistical Association - Member

Omnicron Delta Epsilon (International Economics Honor Society) - Member

Professional Publications:

- J. E. Kiefer, A. Langenbach, J. Boim, S. Gordon, D. J. Marcellin-Little. Single-stage bilateral tibial tuberosity advancement for treatment of bilateral canine cranial cruciate ligament deficiency. Journal of Veterinary and Comparative Orthopaedics and Traumatology, Issue 3 2015, pages 215-219.
- J. Boim, R. Shoemaker. AFRI Social Science Research, NIFA White Paper, 2014.

References:

Name	Employer	Title	Phone	Email
Brad Rein (*)	NIFA	Division Director	202-445-5442	BREIN@nifa.usda.gov
Robbin Shoemaker NIFA (*)		National Program Leader	202-617-0158	rshoemaker@nifa.usda.gov
Laurie Snow (*)	Farm Production & Customer Conservation Business Center	Experience Specialist	202-260-8178	Laurie.Snow@usda.gov
Parag Chitnis (*)	National Institute of Food and Agriculture	Acting Associate Director for Programs	(202) 401-5024	parag.chitnis@usda.gov
Jason Hitchcock (*)	Agricultural Research Service	Division Director	202-445-3467	JHITCHCOCK@nifa.usda.gov

(*) Indicates professional reference

Additional Information:

COMPUTER SKILLS

Proficient in R, SAS, SPSS, STATA, Python, Jupyter Notebook, NetLogo, Subversion, MS Word, Excel, Access, and PowerPoint

(Continued from Job 1: 11/2012-Current, Program Specialist, National Institute of Food and Agriculture)

DESIGNED, IMPLEMENTED, AND ANALYZED SURVEYS:

- OMB approved veterinarian loan program survey using Survey Monkey to determine retention rates of cohorts 1, 3, and 5 years post termination using survival analysis in Survey Monkey & R. Results are expected to provide metrics on the programs ability to increase and retain veterinary

capacity in shortage areas.

- Assessed priorities on topics related to grants management & preference between three software solutions for 400-person agency using Word, Excel, & R. Both numerical and open responses were collected from staff. Findings were summarized in a written report and presented to agency leadership and staff. Data was also used for cost-benefit analysis of the competing software programs.
- Surveyed over 50 potential participants using Google Docs to determine preferences for site location and type of presentation for Project Directors meeting. Information was used to determine agenda and venue needs. Survey was annually conducted for four years and revised based on available locations.
- DESIGNED NUMERICAL AND OPEN RESPONSE SURVEY questions using Google Docs to identify gaps & areas of improvement in electronic grant administration systems & IT services for 400-person agency. Presented results to agency stakeholders & leadership. SPEARHEADED AGENCY INITIATIVE to improve communication on IT-related items in response to survey results.
- LED TEAM OF FIVE in design of survey to document Civil Rights accomplishments for 75-employees using Google Docs. Survey included both numerical and open response questions and was analyzed in excel and R. Written report was shared with agency leadership and the Secretary of Agriculture's Office for inclusion in broader Civil Rights report. Survey & report were conducted annually for four years.
- LED TEAM OF 4 to assess interest, value, and areas of improvement in presentations of work being done by 75 employees through a numerical and open response question survey using Google Docs. Analysis conducted in Excel and R was incorporated into a report presented to leadership, concluding that staff found presentations provided new ideas and solutions for implementation of their programs.

Honors & Awards:

- Outstanding performance award (2014, 2017, 2018)
- Time off award for coordinating NIFA PRIDE event and filling in for the facilitator at a moment's notice (2017)
- Time off award for leadership on DPR implementation team (2016, 2017)
- Spot award for leadership on Data Governance Group (2016)
- Spot award for developing and analyzing survey for IFPS Civil Rights Report (2015)
- Spot award for white paper on extent of Social Science in NIFA panels and RFA's (2014)
- Spot award for outstanding leadership and teamwork in Fit-Gap Analysis taskforce (2014)
- Member of International Honor Society in Economics (2011)
- Undergraduate Research Award (2010)