

KIRKWOOD P. DONAVIN - CURRICULUM VITAE

PERSONAL INFORMATION

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PROFESSIONAL STATEMENT

I am an economic analyst transitioning towards data science because I love using statistics & computer science to enhance the work of other professionals. I seek a team environment with quantitative co-workers and mentors that will facilitate my growth as a data scientist. I am able to query, clean and analyze data with statistical rigor and I am enthusiastic about problem-solving with programming languages.

PROFESSIONAL EXPERIENCE

Economic Research Analyst

TechLink Center @ Montana State University, Bozeman, June 2015 - June 2017: I was principally involved with TechLink's economic impact studies regarding technology transfer and SBIR/STTR contract agreements between the Department of Defense and private industry.

- Used Python & R to query and clean 25,000 economic survey observations of DoD contractors and grant winners stored within TechLink's database
- Supplied statistics and assisted with draft editing for 3 of TechLink's economic impact studies of DoD SBIR/STTR programs and licensing activity¹
- Performed statistical analyses using linear models to identify factors influencing commercialization within the Air Force & Navy SBIR/STTR programs including company size, experience in the SBIR/STTR program, location in the US and age of SBIR/STTR contract

Research Manager

Engineers Without Borders - Montana State University (EWB), Khwisero, Kenya, Summer 2014: I managed a household survey that collected data used to test EWB well & latrine projects for family welfare improvements. This was the subject of my thesis, *The Welfare Impacts of Engineers Without Borders in Western Kenya*.

- Implemented a near-800 household survey
- Managed a team of 16 enumerators and 2 undergraduate assistants
- Instructed a group of 4 undergraduates about data hygiene techniques in order to team-clean the survey data

Graduate Assistant

Montana State University, Bozeman, August 2013 - May 2015

- Graded more than 400 essays and problem sets for *Agricultural Marketing*
- Designed assignments & course notes for *Agricultural Marketing* and *Development Economics*
- Collected raw bushel price data from more than 30 Montana grain elevators

OTHER EXPERIENCE

Mathematics Tutor

Westminster College, Mathnasium & Freelance, Salt Lake City, Utah, 2013 - 2014

Urban Policy Fellow

U.S. Conference of Mayors, Washington, District of Columbia, Summer 2010 - funded via *Dickinson Fellowship in Urban Policy Development* awarded through the Cornell College Fellowship Program

¹2016 Report: SBIR/STTR Program Economic Impact, 2000-2013, 2016 Report: Economic Impact of DoD Licensing, 2000-2014 & 2015 Report: Natl Economic Impact from TechLink Activities 2000-2014

EDUCATION

Master of Science in Applied Economics

Montana State University, Bozeman, May 2015

- **Thesis** *The Welfare Impacts of Engineers Without Borders in Western Kenya*. This thesis explores the welfare impacts of an undergraduate organization's engineering projects at primary schools in Khwisero, Kenya. Analysis demonstrates that households are spending less time collecting water by accessing EWB bore hole wells. However, no evidence is found for health or educational benefits of EWB wells or composting latrines.
- **Advisor:** [Dr. Sarah Janzen](#), Assistant Professor of Economics
- **Coursework:** Microeconomic Theory, Macroeconomic Theory, Mathematical Economics, Econometrics (I & II), GPA: 3.28

Bachelor of Arts in International Relations

Cornell College, Mount Vernon, IA, May 2011

- Graduated cum laude (GPA: 3.51)
- Minor in Philosophy

Supplemental Studies in Computer Science, Mathematics & Statistics

Westminster College, SLC, UT & Montana State University, Bozeman, MT

- **Purpose:** Preparation for a career in the field of data science
- **Coursework:** Data Structures & Algorithms, Multivariable Calculus, Introduction to Real Analysis, Linear Algebra, Probability Theory, Mathematical Statistics

HONORS & AWARDS

Graduate Meritorious Fellowship

The Graduate School, Montana State University, 2013

All-American, Mile Run (3rd Place)

NCAA Division III Indoor Track & Field Championships, March 2011

Most Valuable Track Performer

Iowa Intercollegiate Athletic Conference, 2011 Indoor Season

COMMUNITY SERVICE

Director, Coach & Technology Officer

Montana Racing Project, January 2015 - Present (Director since 2016)

TECHNICAL LANGUAGE SKILLS

R (professional), L^AT_EX (professional), Java (intermediate), Stata (intermediate), Python (intermediate), SQL (beginner)

INTERESTS

Mountain biking, climbing, Linux computing, science fiction

REFERENCES

- [Will Swearingen](#) (406) 994-7704
Executive Director, wds@exchange.montana.edu
TechLink
- [Chris Huvaere](#) (406) 994-7736
Data Systems Project Manager, chuvaere@montana.edu
TechLink
- [Brett R. Cusker](#) (406) 570-0731
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TechLink
- [Sarah Janzen](#) (406) 994-3714
Asst. Professor of Economics, sarah.janzen@montana.edu
Montana State University