John M. Snyder
Salt Lake City, UT • john.snyder@imail.org

Education

Bachelor of Arts, mathematics, Grinnell College, Grinnell, Iowa. Graduated May 2005, GPA: 3.486

Master of Science in Statistics, Ohio State University, Columbus, Ohio, Department of Statistics. Graduated June 2010, GPA: 3.8

Computer Science curricula, University of Wisconsin-Madison, Madison, Wisconsin, GPA: 4.0

Employment

Intermountain Healthcare **Salt Lake City, UT**
Statistical Data Analyst, Sr. | Oncology Clinical Program *Nov 2015 - Present*

- Discovered gaps in patient outcomes and potential cost savings by leveraging system-wide structured data to identify variation and deviation from best practice.
- Worked with superiors to identify areas of interest; investigated the relevant data for insights, prepared graphs, tables, and presentations; and delivered them to stakeholders.
- Collaborated with physician experts to develop key performance indicators for practitioner rewards and board goals, and developed interactive dashboards to display them.
- Applied machine learning and statistical predictive models to investigate the association between a more affordable, institutionally-developed biomarker and the industry standard for predicting recurrence in breast cancer patients.
- Prioritized multiple objectives driven by various work-groups, physicians-investigators and executives.
- Completed the Institute for Healthcare Delivery Research's Advanced Training Program in Healthcare Delivery.
- Introduced and demonstrated core concepts of deep learning, survival analysis, and RMarkdown to colleagues as part of a brainshare, and shared the content in public repositories.
- De-identified data subject to federal regulation and shared it with outside collaborators.
- Gathered data from disparate sources to create a report of market share and financial health.
- Aided physician-investigators in data collection, cleaning, analysis, and co-authored publications.
- Identified limitations in data systems and reports, and worked across team of analysts and data architects to find solutions.
- Collaborated with vendors to share data, troubleshoot draft reports, and suggest improvements.
- Employed probabilistic record merging to identify patient populations at greater risk of cancer.

University of Wisconsin - Madison **Madison, WI**
Quantitative Data Analyst | Wisconsin Center for Education Research *Aug 2010 – Oct 2015*

- Worked under tight deadlines to produce deliverables for clients in a timely manner.
- Automated the organization of educational, demographic, and associative data from multiple sources into more than 600 distinct datasets suitable for analysis and production.
- Communicated with clients and collaborators to distinguish between statistical and policy decisions, producing reports elaborating upon the consequences of each.

- Identified statistical issues in the conventional model, collaborated with senior investigators to develop a novel process to address said problem, and implemented the solution in code as a SAS macro.
- Authored automated reports clarifying data limitations, decreasing production time two months.
- Collaborated to improve in-house software as a member of the Standard Code committee.
- Re-factored the application of business rules and policy decisions–reducing 10,000+ lines of SAS code to 2,000–making them clearer, capable of dynamic updates, and easily communicated to clients.
- Conveyed statistical results to collaborators and clients of diverse analytical background.
- Communicated with the Internal Review Board to facilitate grant approval.
- Served as a mentor of junior programmer-analysts, and a statistical and programming resource.
- Reached out to university administration to clarify privacy policies and requirements as part of an initiative to de-identify and preserve data subject to federal regulation.

Ohio State University - Columbus **Columbus, OH**

Teaching Assistant | Department of Statistics *Sept 2008 – June 2010*

- Directed undergraduate students in activities to demonstrate and reinforce statistical concepts.

Gymnasium Nieder-Olm **Nieder-Olm, Germany**

Fremdspracheassistent für Englisch *Sept 2006 – June 2007*

- Aided German English teachers in the instruction of English as well as providing additional expertise outside of class.
- Developed German students' ability and comfort with English as a second language.
- Served as a model of American culture and traditions.

Future School **Dalian, China**

English Teacher *Sept 2005 – April 2006*

- Instructed more than a hundred students in as many as eight classes on the structure and use of English as a second language.
- Developed the comfort and ability in English in several Chinese adults through discussion.

Awards

- Fulbright Fellowship received for the 2006-2007 academic year in Germany

Computer-related Skills

Familiarity and experience with multiple programming languages, office software, platforms, and associated packages/libraries: R, SQL, python, SAS, Java, git; Microsoft Word, Excel, and PowerPoint; Windows, Linux, OSX; dplyr, ggplot, Shiny, RMarkdown, jupyter, numpy, pandas, tensorflow

Foreign Language

- German: extensive education, formerly fluent
- Spanish: previous education, basic comprehension and speaking ability
- Chinese: basic speaking ability