

William J. Baum

MS, MSN, APRN, FNP-BC, CNL

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EXPERIENCE

Years

Data Scientist, Metis

2018 - Present

Consultant, Baum Consulting (dba "Cactus Consulting"), Manchester, NH 2011 - Present

- * [Statistical Data Exploration and Analysis](#); Research and Quality Improvement
- * [Machine Learning, Natural Language Processing, Design of Experiments, EDA, CDA](#)
- * [Automation](#) of Statistical Reports with output as Dashboards and Applications
- * Large Data Projects with [Scripted Data Preparation](#) & [Web scraping](#)

Nurse Practitioner, QI Manager, Lamprey Health Care, Newmarket, NH 2015 - Present

- * Family Nurse Practitioner, Primary Care Provider, Federally-Qualified Health Center
- * Led agency QI program, Medical Home projects (3 sites) - Level 3 NCQA Recognition
- * Developed and Directed new, revenue-producing Chronic Care Management program
- * [Developed Population Health Program with Custom Integrated Analytics Platform](#)
- * Preceptor for doctoral candidates in public health, multiple graduate nursing students

Family Nurse Practitioner, Minute Clinic, CVS Caremark, Quincy, MA 2014 - 2015

- * Independent Practitioner in busy, urban, retail-health setting; DOT Medical Examiner
- * Achieved 110% expected production (RVUs) in first year of practice

Quality Program Manager, HealthFirst Family Care Center, Laconia, NH 2012 - 2013

- * Led adoption of Meaningful Use and Patient-Centered Medical Home initiatives
- * Promoted to senior management team; Managed \$150,000 budget and 3 employees

Registered Nurse, Northern Arizona VA Medical Center, Prescott, AZ 2011 - 2012

- * Acute Care Registered Nurse (Medical Unit 4A), ACLS & BLS certified
- * Member of Evidence-Based Practice Council, and Research Journal Club

Emergency Medical Technician, Centre LifeLink EMS, State College, PA 2007 - 2009

- * EMT-Basic: provided 911 emergency medical care with ALS service
- * EMS Teaching Assistant: Trained EMT students at Northeastern & Penn State

EDUCATION

Graduated

Master of Science: Statistics, University of New Hampshire; 3.77 GPA 2018

- * Research Methods, [Data Exploration](#), [Survival](#), Six Sigma, [Design of Experiments](#)
- * [Statistical Programming: Python, Pandas, R, JSL \(JMP\), SAS, SQL, MongoDB, Linux](#)
- * Graduate Certificate: [Industrial Statistics](#); Member: American Statistical Association
- * [Large data capstone: Developed ICU Readmission Prediction Tool - Top 20 Diagnoses](#)

Post-Masters Certificate: Family Nurse Practitioner, University of New Hampshire 2013

- * **Massachusetts General Hospital** - Radiation Oncology & Pre-Anesthesia Testing
- * Lamprey, Belknap, Moultonboro Family Practices - Family Medicine

Master of Science: Nursing, Clinical Nurse Leader, University of New Hampshire 2010

- * Sigma Theta Tau (Eta Iota), Golden Key Honor Society, IHI Chapter Founder

Bachelor of Arts: Russian; **Penn State University**: University Park, PA; 3.75 GPA 2008

PRESENTATIONS

Date

- * [Design of Experiments and Multiple Response Optimization](#) (Baum), Metis NYC 8/16/2018
- * [Fundamentals of Quality Improvement](#) (Baum), Metis NYC 7/20/2018
- * Invited Speaker, California Chapter, Clinical Nurse Leader Association 10/15/2015
“[Exploring and Predicting Readmissions: A Retrospective Review of Intensive Care Unit Admissions, Discharges, and Hospital Readmissions](#)” (Baum)
- * Invited Speaker, JMP Discovery Summit 2015 9/16/2015
“[Scraping Data from the Web to Predict Football Wins](#)” (Baum)
- * Invited Speaker, Small HCP QI Program Annual Meeting, ORHP: Bethesda, MD 5/30/2013
“[Data: A picture is worth a thousand words](#)” (Baum)
- * Invited Speaker, CNC Teleconference Series on Clinical Nurse Leader Role 11/18/2011
“Clinical Nurse Leader Consulting” (Baum, DiNapoli)
- * Poster Presenter, JMP Discovery Summit: Denver, Colorado 9/16/2011
“[JMP and Visual Six Sigma: A recipe for optimal healthcare outcomes](#)” (Baum, Ramsey)
- * Invited Speaker, Northern Arizona VA Medical Center: Prescott, AZ 8/17/2011
“Implementation of the Clinical Nurse Leader role in the VA”
- * Speaker, Mary Louise Fernald Nursing Research Symposium (UNH) 12/20/2010
“Reducing chronic heart failure readmissions through quality management”
- * Poster Presenter, Institute for Healthcare Improvement Conference 12/13/2010
“Reducing chronic heart failure readmissions: A measurement systems analysis”

PUBLICATION WORK

- * First Reviewer: [Journal of Nursing Measurement](#) since 2015