BRAD WEINER, PHD

I am an energetic, lifelong-learner who is passionate about leveraging data to understand and solve complex business problems. Most recently I led the data science team at Capture Higher Ed, a Louisville-based data and software company that helps colleges and universities optimize their recruitment and advancement resources.

III SELECTED POSITIONS

2020 2016

Director → Senior Director of Data Science

Capture Higher Ed

Louisville, KY

- Lead a centralized data science team charged with R&D, data products, analytics, data engineering, data quality, and thought leadership. This group:
- Generates ~10% of company revenue with a suite of data products including a student survey platform, a ML ensemble for enrollment outcomes that is 95% accurate, an analytic campaign reporting platform, and descriptive utilities for our marketing automation platform
- Built and maintains a partitioned data warehouse using S3 and Athena. This multi-year project pushed the company toward an analytic-friendly data storage tool and dramatically advanced our descriptive and predictive capabilities
- Improves and optimizes. Examples include a ML-model which assigns webpage tags (~.10 FTE), a fuzzy de-duplication tool (~.10FTE), a Slack Bot to quickly retrieve internal information (~0 FTE, but way more awesome), a script to populate project management tickets estimated to save ~100 hours/year
- Provides thought leadership internally and externally. Examples include experimental design seminars to aid continuous improvement, sessions and training on algorithmic bias, webinars and conference presentations on data science, public code repositories for SAT/ACT concordance transformations, national conference Twitter analytics, and a podcast for higher education professionals that was downloaded >19K times prior to relaunch
- Fails and learns. In my view it is important to recognize that not every project works out. Our team has created prototypes missing a market fit, models that have failed to converge, tools that have been too complex to explain or scale, and ideas that haven't had sufficient data to test. In these situations we've learned, iterated, and worked to rapidly incorporate this knowledge into future tests

2016 2015

Data Scientist

Capture Higher Ed

O Louisville, KY

- Produced machine learning models, analytic tools, feature upgrades, analyses, and various prototypes
- Developed several widely adopted indices for aggregated behavioral web visit data at the individual level
- Traveled to partner institutions to present results and prescriptive strategies to senior enrollment leadership

2016

Adjunct Instructor, Quantitative Reasoning and Decision-Making

The University of Minnesota - Twin Cities

Minneapolis, MN

- Designed and taught OLPD 8087: Quantitative Reasoning and Decision-Making for a cohort of 20 PhD students in the College of Education and Human Development
- Taught students the basics of exploratory data analysis, data storytelling, and reproducible research

2015 2012

Analyst, Office of the Vice Provost for Undergraduate Education

The University of Minnesota - Twin Cities

Minneapolis, MN

- Researched institutional policies and proposed interventions impacting more than 30,000 undergraduates and annual institutional aid distributions of >\$80 million
- Employed statistical models to explore and understand interactions between enrollment, retention, tuition revenue, student aid, and student borrowing
- Produced ad-hoc analyses, visualizations, and presentations for campus partners including The Minnesota State Office of Higher Education, University Relations, Legislative Affairs, University Finance, the Office of the Provost, the Office of the President, and the Board of Regents

CONTACT

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LANGUAGE SKILLS



DOMAIN KNOWLEDGE

Enrollment Management Financial Aid Retention Advancement Data Science Leadership and Training **Product Management**

Made w/ pagedown and CV Template found here: github.com/nstrayer/cv. Last updated on 2020-05-06.

Graduate Research Assistant, Office of Undergraduate Admissions 2012 Minneapolis, MN The University of Minnesota - Twin Cities 2009 Researched and modeled patterns in prospective student choice behavior for >25,000 applicants and >5,000 FTFT students annually • Tripled explanatory power and increased predictive model accuracy by 25%, enabling more efficient resource allocation **Assistant Director, Undergraduate Admissions** 2009 Nashville, TN Vanderbilt University 2006 Responsible for recruitment, communications, and application-reading for domestic and international territories Hosted weekly "Data Summits" to build data-driven culture among new and veteran staff · Processed, evaluated, and disseminated data to enhance strategic decisions regarding travel, selection criteria, scholarship evaluation, applicant pool diversity, secondary school quality, admissions yield, and website traffic Admissions Counselor, Office of Admissions and Scholarships 2004 Lawrence, KS The University of Kansas 2002 ■ SELECTED PUBLICATIONS & PRESENTATIONS The Modal Institution of Higher Education 2019 bradweiner.info Code tutorial in R demonstrating how to find the "modal" college or university. Modeled after "Modal American" episode of Planet Money. The Weightlist Podcast 2019 Capture Higher Ed 2016 Co-hosted Weightlist Podcast which served as a venue for discussing data science and higher education. More than 19K downloads over three-year run • Rebranded and launched as "The Buzz". Earlier episodes available at link Patterns of Gendered Performance Differences in Large Introductory Courses at Five 2017 **Research Universities** AERA Open Authored with Rebecca L. Matz, Benjamin P. Koester, Stefano Fiorini, Galina Grom, Linda Shepard, Charles G. Stangor, & Timothy A. McKay • Ran parallel analysis with data scientists and researchers from 5 large research universities Data set included >1 million course enrollments across 13 academic disciplines EDUCATION Ph.D., Educational Policy and Administration 2014 Minneapolis, MN The University of Minnesota - Twin Cities 2009 • Dissertation Title: Internationalizing the Advancement Agenda: A Multi-Case Study of Advancement Practices at Universities with Very High Research Activity • Used my time in PhD program to learn statistical methods, data science, and the R statistical language M.Ed., Higher Education Administration 2006 Nashville, TN Vanderbilt University 2004 • Graduate Assistant for Office of New Student Programs and Student Activities **B.A.**, English 2002 Lawrence, KS The University of Kansas 1998