Nick Holt, Ph.D.

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SUMMARY

Passionate data scientist with a unique blend of skills in advanced analytics and cognitive science. Six years of experience designing thoughtful analytical approaches that derive answers from data. Laid-back but deadline-oriented, and intellectually curious about all things related to data science.

EDUCATION

- **PhD** in Experimental Psychology - University of Louisville, Louisville, KY, **2016**
- **MS** in Experimental Psychology - University of Louisville, Louisville, KY, **2013**
- **BS** in Psychology - Morehead State University, Morehead, KY, **2011**

RELEVANT EXPERIENCE

Head Instructor - Institute for Advanced Analytics, Bellarmine University, 2016 - Present
- Work with the Institute's Executive Director to craft the curriculum arc and other design elements for the Master of Science in Analytics (MSA) program
- Graduate-level instructor of record for a variety of topics in statistical computing and predictive analytics including—but not limited to— introductory data analysis, R programming, computational probability and statistics, statistical modeling, data mining, and machine learning
- Manage curriculum pedagogy through mentorship of adjunct faculty and guest instructors
- Small business data science consultant for area clients (e.g., Healthcare Strategy Group, Credit Fair-e)

Volunteer – Data for Democracy, 2017
- Wrote web scrapers to harvest PDFs from the Kentucky Legislative Research Commission website and used OCR to transform unstructured PDF text data into flat files for a Postgres SQL database/public API containing voting histories for every bill passed by the Kentucky General Assembly in the 2017 session

Associate Research Scientist - Pacific Institute for Research and Evaluation, 2016
- In-house data/statistics specialist: The team only used SPSS before I arrived, so I automated processes in R to ease workload off of other staff and analyzed data to support projects of senior scientists
- Transformed messy, unorganized client data sets into reports, presentations, and other products
- Primarily worked on large-scale survey/evaluation projects for government and non-profit agencies
- Clients served included the U.S. Department of Veterans Affairs, U.S. Department of Education, National Institute of Dental and Craniofacial Research, NASA, Children International, Afghanistan Ministry of Counter Narcotics, Healthcare Access Maryland, Big Brothers Big Sisters, and Metro United Way.

Graduate Research Assistant / Lab Manager - University of Louisville, 2011 - 2016
- Designed cognitive/developmental science experiments and published findings in scientific journals
- Collected, wrangled, cleaned, and analyzed data from a variety of sources (videos, eye-tracker recordings, behavioral measures, standardized developmental assessments, surveys) using R, SPSS, VBA and Python

TECHNICAL SKILLS

- **Languages:** R, Python, SQL, Visual Basic, Markdown, HTML, CSS, Git
- **Statistical Methods**: Regression, ANOVA, Hypothesis Testing, Confidence Intervals, Multivariate Techniques, Time Series, PCA, Factor Analysis, Nonparametrics, Simulation, etc.
- **Data Acquisition:** Web Scraping (XML, JSON, rvest, Selenium), Text Mining, APIs, OCR
- **Data Visualization:** Shiny, Tableau, ggplot2, leaflet
- **Machine Learning:** Classification, Regression, Clustering, Neural Networks, Random Forests, etc.
- **Other Platforms:** SPSS, Excel, Photoshop, Amazon Web Services