Nick Holt, Ph.D.

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SUMMARY

Passionate data scientist with a unique blend of skills in advanced analytics and cognitive science. 6+ years of experience finding answers to difficult questions through analytical thinking and statistical expertise. Laid-back but deadline-oriented, and intellectually curious about all things related to data science.

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 introductory data analysis, R programming, computational probability and statistics, statistical modeling, data mining, machine learning, simulation, and optimization
- 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)

Associate Research Scientist - Pacific Institute for Research and Evaluation, 2016
- In-house data/statistics specialist
- Automated several existing data protocols in R 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

Graduate Research Assistant / Lab Manager - University of Louisville, 2011 - 2016
- Oversaw general lab operations including scheduling, marketing, recruitment, and training
- Coordinated a team of junior graduate and undergraduate researchers while managing several research projects simultaneously
- Designed and executed cognitive science experiments and published findings in peer-reviewed 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

PROJECTS & ACTIVITIES

- Scraped Kentucky State Legislature Voting Histories to create a new public API with Data for Democracy
- Invited speaker for the Louisville R Users Group
- Built a simulation of Triangle Peg Solitaire and trained a reinforcement learning agent to solve the game
- Published scientific papers on causal learning via haptic experience and face perception
- Created an R wrapper for the Constant Contact API to automate CRM/marketing campaign analytics
- Designed an interactive visualization of the relationship between fantasy football expert rankings and model projections using a Shiny app to scrape and process live web data from fantasypros.com

TECHNICAL SKILLS

- **Languages:** R, Python, SQL, Visual Basic, Markdown, HTML, Git
- **Statistical Methods**: Regression, ANOVA, Hypothesis Testing, Confidence Intervals, etc.
- **Data Acquisition:** Web Scraping (XML, JSON, rvest, Selenium), Text Mining, APIs, OCR
- **Data Visualization:** Shiny, Tableau, ggplot2, leaflet
- **Machine Learning:** Classification, Regression, Clustering, Ensemble Methods, Reinforcement Learning
- **Other Platforms:** SPSS, Excel, Photoshop, Amazon Web Services

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**