CLAYTON STANLEY

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EDUCATION

Rice University *Dec 2014*
Ph.D., Cognitive Psychology, emphasis in modeling large-scale human behavioral datasets
Thesis short title: Comparing vector-based and ACT-R memory models using large-scale datasets
Advisor: Dr. Michael D. Byrne, Overall GPA: 3.9

Rice University *May 2009*
M.A., Cognitive Psychology, emphasis in computational cognitive modeling
Thesis title: Visual displays: Developing a computational model explaining the Global Effect
Advisor: Dr. Michael D. Byrne, Overall GPA: 3.8

United States Air Force Academy *May 2007*
B.S., Applied Physics, emphasis in computational methods
Distinguished Graduate, Overall GPA: 3.8

AWARDS

· John W. Gardner Award, Best dissertation in the social sciences, Rice University	*May 2015*
· United States Air Force Commendation Medal for exceptional leadership	*May 2012*
· Kenneth R. Laughery Award, Best masters thesis in psychology, Rice University	*May 2009*
· Outstanding cadet in applied physics, United States Air Force Academy	*May 2007*
· Won cadet inter-service computer programming competition, USAFA	*May 2007*

EXPERIENCE

Google, GSuite Apps Mar 2019 - Present
Quantitative UX Researcher *New York, NY*

· Uncovering insights from user log data to improve the design of Google Docs, Slides, and Sheets.

Bloomberg LP, UX Design Jan 2015 - Present
UX Data Scientist *New York, NY*

· Uncovered insights from user logs to improve the design of the Terminal (>100 quant research projects).
· Worked with engineering to build a centralized analytics platform (>10 infrastructure usage datasets).
· Worked with engineering to improve and expand current instrumentation (>100 new user actions).
· Worked with engineering to improve self-service analytics tools for others (>100 people onboarded).
· Worked with user experience researchers to design and analyze >5 quantitative experimental studies.

Rice University, Computer Human Interaction Laboratory May 2012 - Aug 2012
Research Programmer *Houston, TX*

· Migrated 50K lines of Macintosh Common Lisp (MCL) GUI code to Clozure Common Lisp (CCL).
  Implemented subset of the MCL GUI specification in CCL, so that CCL could run original MCL code.
· Consequently, provided a 10-100x speedup in code run time, and allowed modelers to use the newest
  OS X operating system and improved IDEs during development.

Air Force Research Laboratory, Cognitive Models and Agents May 2009 - May 2012
Cognitive Scientist and Software Engineer *Dayton, OH*

- Enabled Teraflops of free computing power for the AF. Developer for the net-centric MindModeling volunteer computing research project. Part of core dev team that redesigned and reimplemented the entire system between 2010-2011. Systems-level project. 10,000+ SLOC. 10+ programming languages.
- Led first organization in AFRL headquarters to certify and connect to the Defense Research Engineering Network (DREN).
- Wrote a system-hardening tool for Linux and OS X to certify machines for the DREN.

MEMBERSHIP & SERVICE

· Active contributor to StackOverflow community	*Jun 2011 - Present*
· US Air Force Active-Duty Commissioned Officer	*30 May 2007 - 31 May 2012*

TECHNICAL STRENGTHS

Behavioral/Physical Modeling	mathematical, statistical, cognitive simulations using Atomic Components of Thought-Rational (ACT-R)
Relevant Coursework	*Statistics*: logistic/linear/nonlinear/multivariate regression *Mathematics*: partial differential equations, discrete math *Psych*: engineering psychology, human factors, decision making *CS*: artificial intelligence, programming paradigms
Computer Languages	R, bash, make, SQL, common lisp
Programming Paradigms	macros, anaphoric/read/compile macros, DSL programming, closures, object oriented, functional, imperative, declarative, code parallelization, vectorization, and optimization
HPC Technologies	hadoop, hive, splunk, postgres, DOD supercomputers
Tools	linux, docker, git, vim, data.table, python
Visualization Tools	ggplot2, tableau, d3
Team Processes	agile, scrum, daily standups, retrospectives, code reviews, bug tracking, pair debugging, test-driven development